PRINTING PRODUCTION

JUNE
1960

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Solving Problems in the Newspaper Business

OTHER FEATURES—

NEW EUROPEAN PRINTING MACHINERY

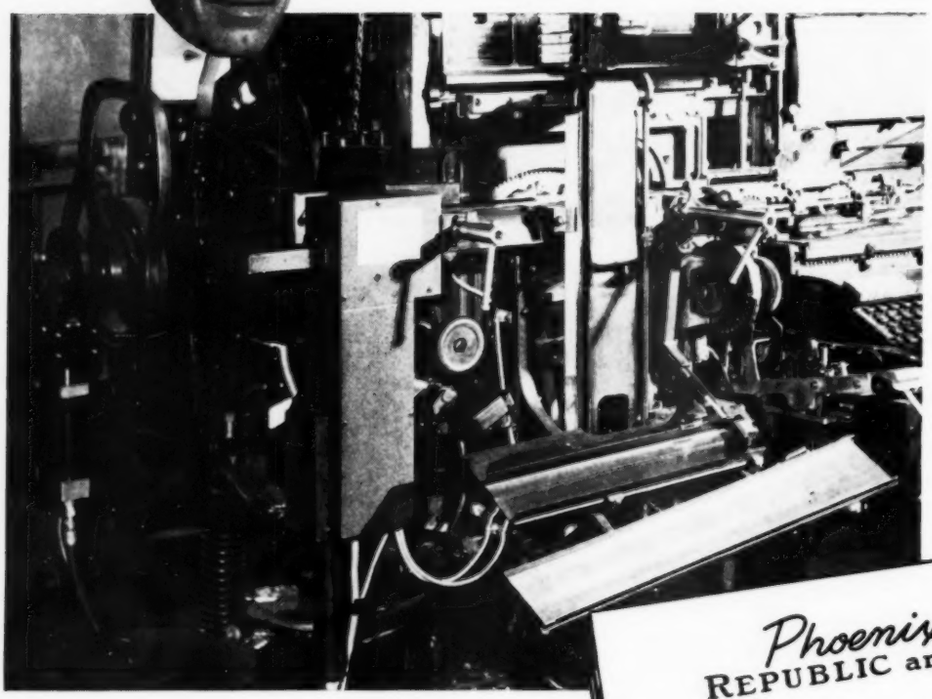
MIAMI'S NEWSPAPER PLANTS

ROP COLOR PRINTING IN GERMANY

REPORTS OF R&EC AND NALC MEETINGS

"it pleased me much when the REPUBLIC and GAZETTE bought those last Star Quadders"

says
W. D. "Bud" Poulson
Chief Machinist
Phoenix Republic and Gazette



Fred R. Unwin, General Composing Room Foreman, is in full accord with the opinion of "Bud" Poulson regarding the recent Star Quadder installation at the Republic and Gazette.

Phoenix
REPUBLIC and GAZETTE

Mr. Emil Bendow
Star Parts, Inc.,
2 South Main Street
South Hackensack, N.J.

Dear Mr. Bendow:

Have been intending to write about your recent installation of the eighth Star Quadder in our plant by Mr. Quido E. Herman. His co-operation and fine job of installing the quadders has been a great help to us.

As a machinist, it pleased me much when the Republic and Gazette bought these last Star quadders. I am and have been most enthusiastic about Star quadders and their performance. The minimum amount of maintenance, the simplicity of adjustments, and the small inventory of parts required are a few of the factors that have sold me on this fine mechanism.

Sincerely,

W.D. "Bud" Poulson
Chief Machinist

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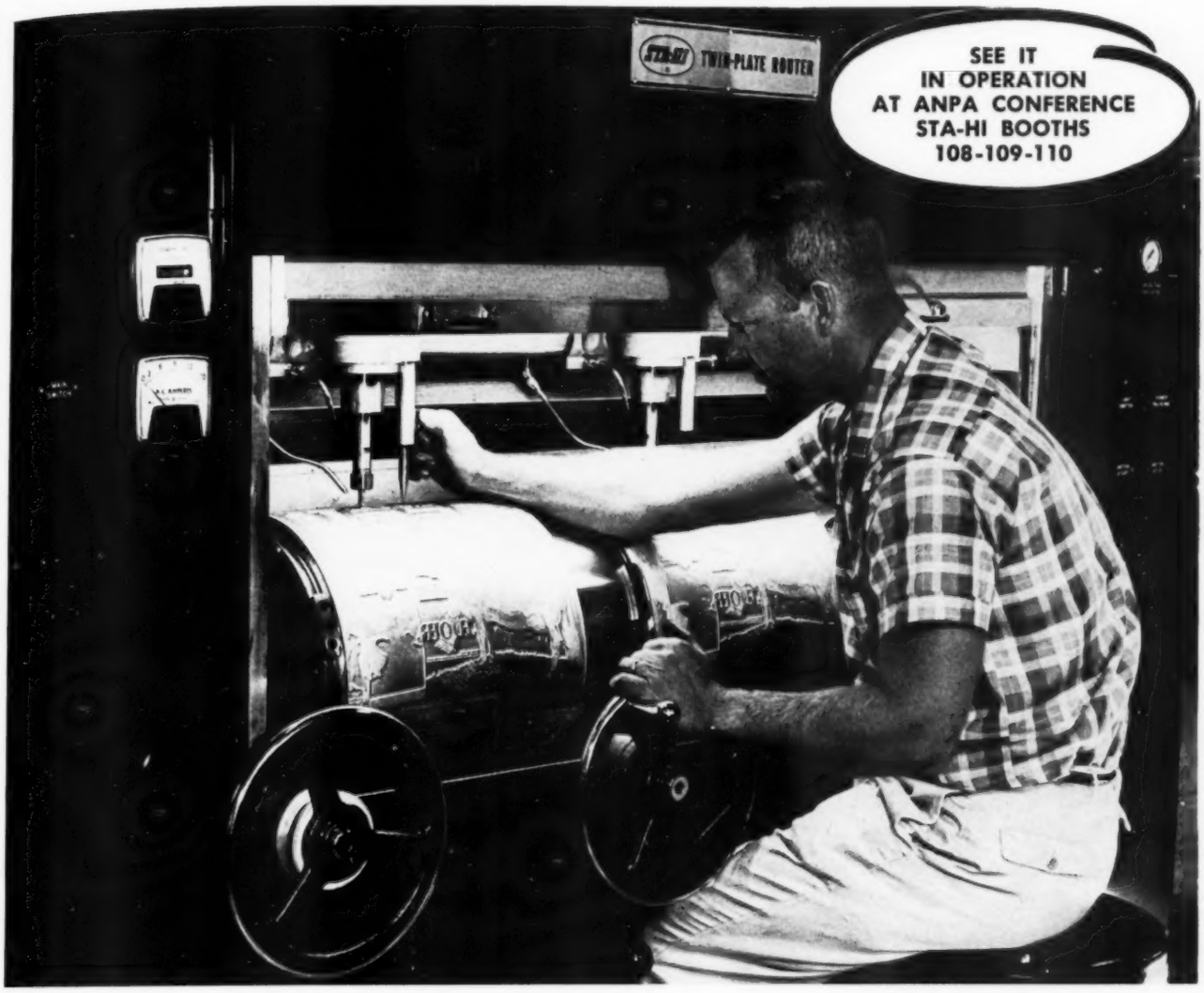

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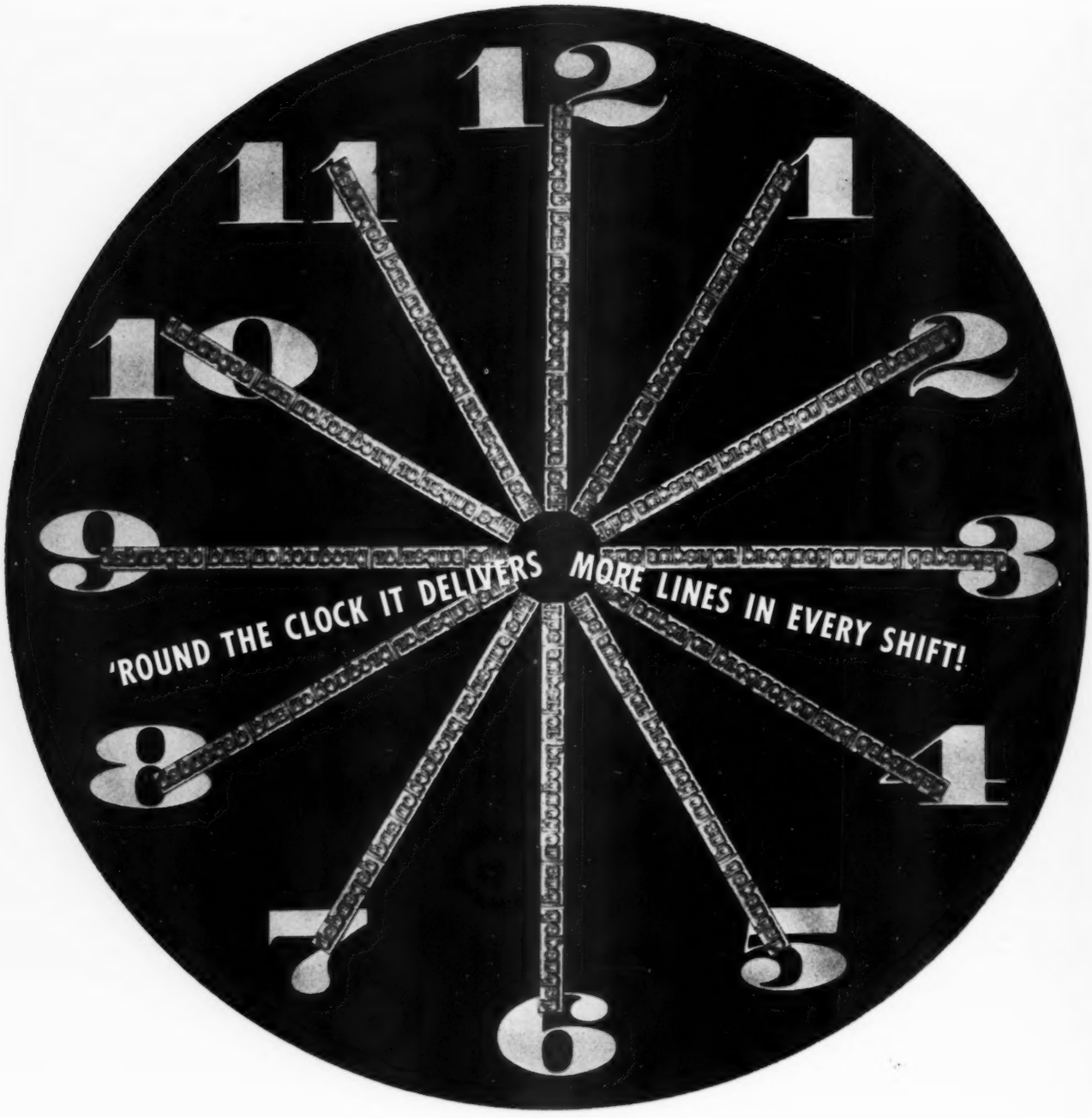

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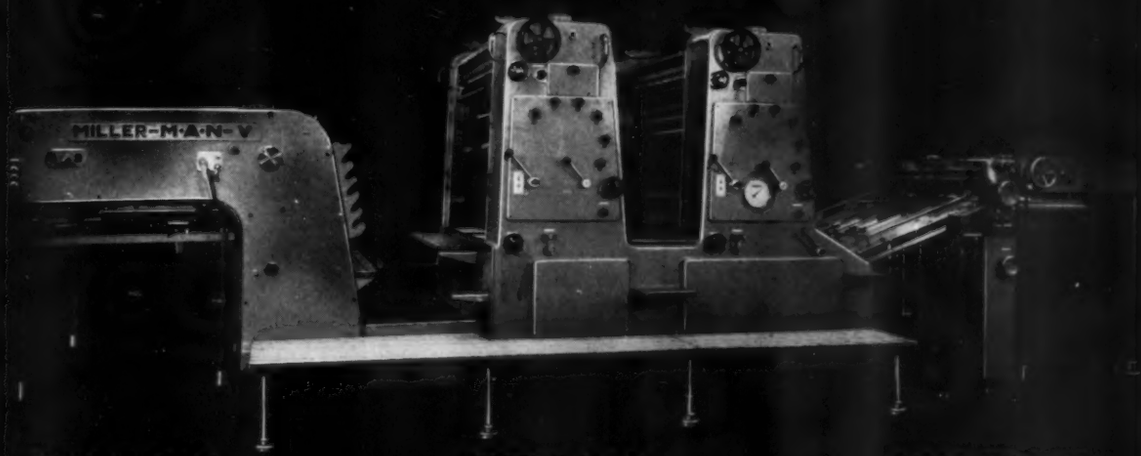

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are the Production Management Men
who *make things happen*
in the Printing Industry.

JUNE 1960
VOL. 90, NO. 9

PRINTING PRODUCTION

Published especially for management, production and mechanical executives responsible for printing production and the specification of equipment and supplies used in all major processes of the Graphic Arts industry.

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THE COVER is an interpretation by artist Lou Rys of American newspaper production and the color which many dailies today are using on regular production runs. Of course, it is not intended to be technically correct in the arrangement of cylinders, web and former. It is, however, intended to highlight two important stories in this issue. One is on how the American Newspaper Publishers Assn. has reorganized its Research Institute (page 56) to help solve newspaper mechanical problems. The other is an interesting description of how ROP color is handled by a German newspaper (page 64). Look at the above table of contents for other features on what is happening in newspaper production.

LETTERS

TO THE EDITORS

Assorted Reader Comments

The many services PRINTING PRODUCTION provides through its splendid features and articles are sincerely appreciated by those of us in the Printing Division of Chilton.

George Cameron, Director
Printing Div., Chilton Company
Philadelphia, Pa.

Let me congratulate you on the consistently high quality editorial material in PRINTING PRODUCTION. In the past two issues I have been particularly impressed by the Collier A. Elliott and Paul D. Doebler articles (April and May). They succeeded in presenting complicated subjects in fairly simple format.

Walter A. Kubilius
Technical Publications Director
American Type Founders Co., Inc.
Elizabeth, N. J.

We appreciate your continued interest in printing education. I don't know how I got started subscribing to your magazine. However, I did many years ago and I think it is one of the best magazines now published for management personnel. I read it thoroughly each month and through it I have been able to keep abreast of the new developments in our industry.

Charles E. Kennedy, Exec. Director
Southern Institute of Graphic Arts
Nashville, Tenn.

Help for A College Prof

I do not feel that it is necessary to couch this letter in any language other than a straight forward request for help on a major research project which I have undertaken.

Sincerity compels me to ask you to send me literature which would clearly indicate such things as the total national production and/or consumption figures for products manufactured in the Graphic Arts industry. Also, I need data on the kinds and quantity of materials used to package these products when prepared for sale and shipment.

My tentative title for this Herculean effort is *Packaging, Its Economic Cost and Effect on United States Producer and Consumer Goods.* I have already received the proper condolences from the U. S. Department of Commerce personnel who assure me that it will be impossible to get this data.

I will be most happy to try to make arrangements to meet any person you name, if you feel a discussion of packaging in your industry will yield fruitful results. It will have to be during my summer vacation, of course.

Frankly, you must help me; otherwise I will be doomed to lead the life of forgotten professor rather than that of one who won a Mediascope Award!

Edward S. Gordon
Professor of Marketing
Roosevelt University
Chicago, Ill.

EDITOR'S NOTE: Rather than let Professor Gordon be "forgotten," readers are invited to send material of any help direct to him at Roosevelt University. Street address is 430 S. Michigan Ave.

Answers Layout Criticism

Frank DeWitt's letter in your May issue (page 6) raises several questions about the commercial plant layout in the March issue article on page 30. We put a great deal of thought into these questions ourselves before laying out the plant as shown.

First, Mr. DeWitt asked: Wouldn't it be better to have the machines close to the dump and the magazine racks behind the machines? Wouldn't this allow for additions to their number and save hunting in circles for an empty space and the particular magazine wanted?

In this plant, which does much job work as well as directory and magazine composition, fonts are swung as often as trips are made to the dump. We thought about the number of swings, too, but more than 100 fonts of type and only four machines means a prodigious

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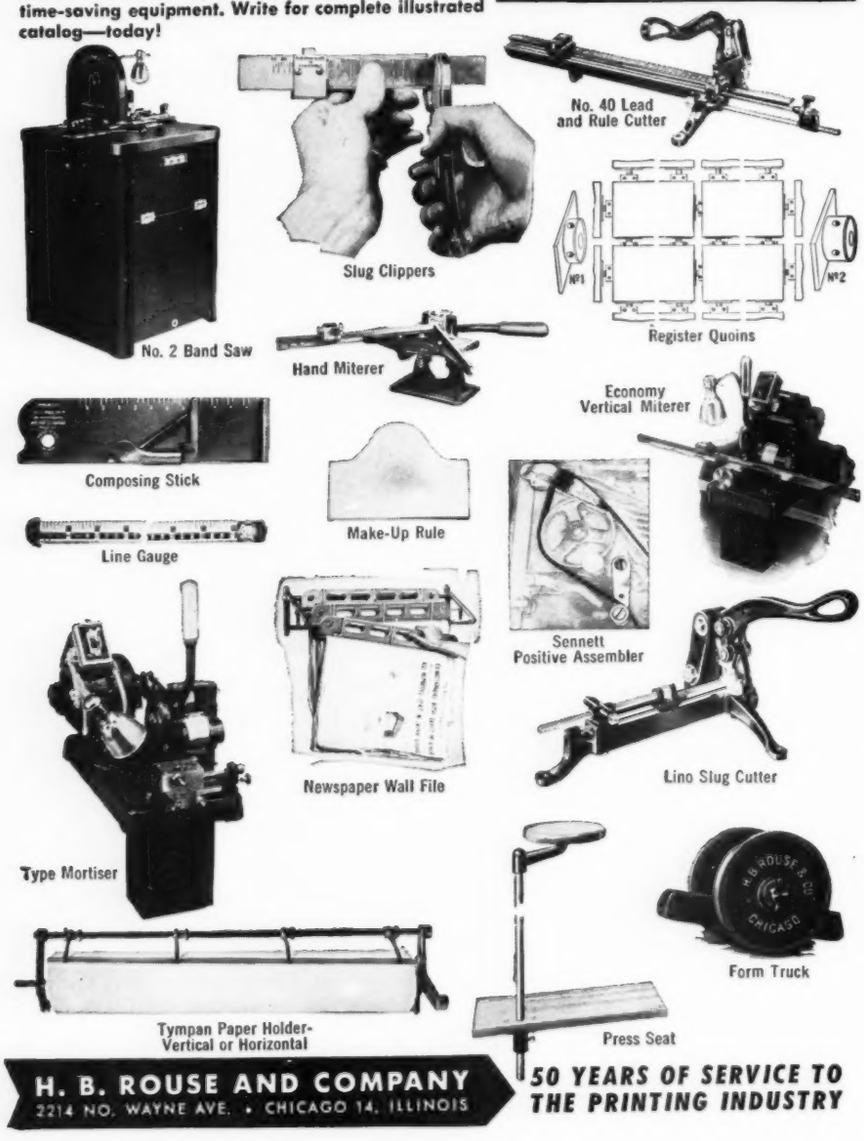

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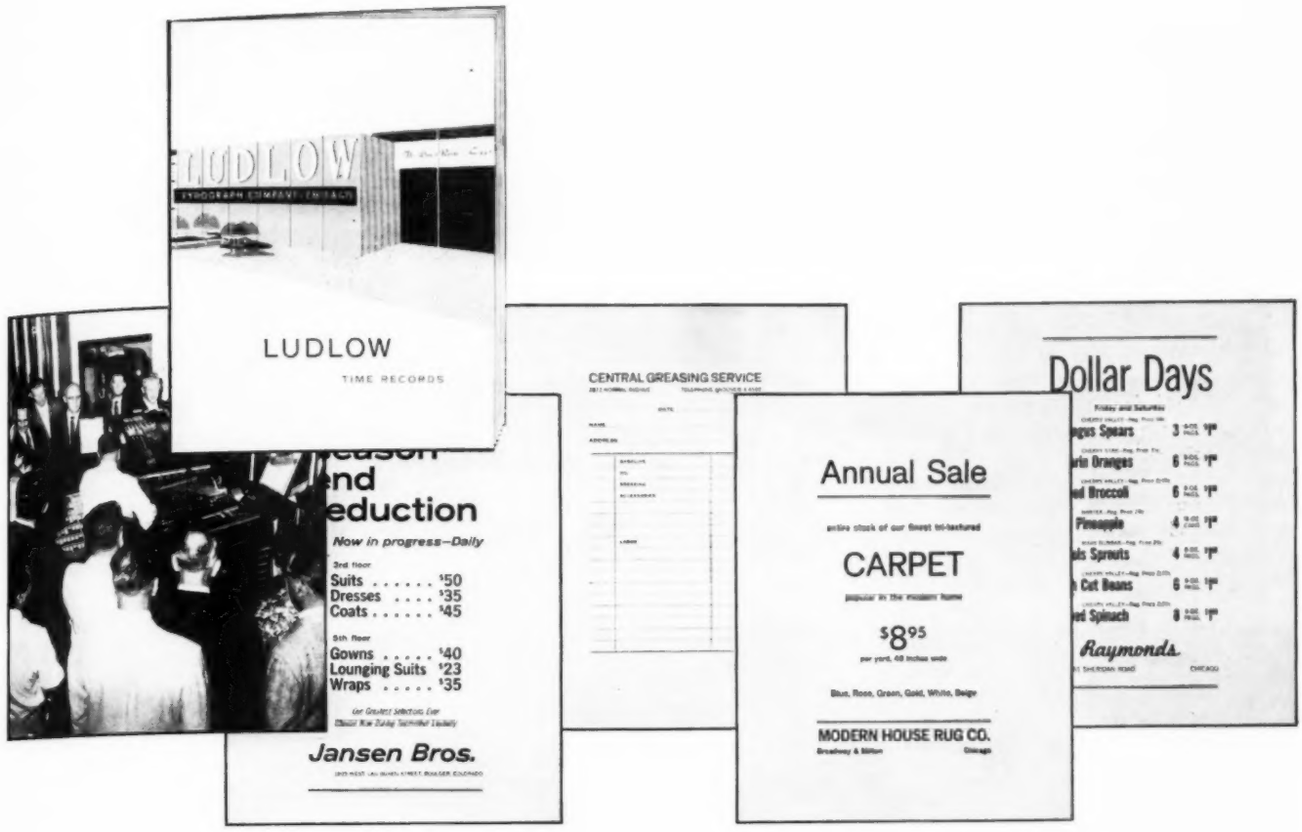

Ludlow Time Records . . .

Close-up of one of the instructive Ludlow public demonstrations

During the 1959 Educational Graphic Arts Exposition in New York the Ludlow Company conducted public demonstrations of display and job composition, so that one could see for himself the time-saving in doing work the Ludlow way.

Exposition visitors were invited to estimate the time actually required to set and make up each job from reprint copy, using both single types and the Ludlow. The job was then set on the Ludlow and made up as a public demonstration of its use for the work in hand. Men respected in the printing industry served as judges at these demonstrations.

These jobs have been included in a new 24-page booklet entitled "Ludlow Time Records," illustrated above. Actual time required is given for setting, casting and make-up on the Ludlow, as well as a detailed description of how each job was produced. Distinctive Ludlow advantages for the setting of the jobs are thoroughly explained.

Send today for your free copy of this valuable new 24-page booklet. It will show you how Ludlow helps improve composing room efficiency.

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number of swings any way you slice it.

If the men must swing this much, it is far better to keep this distance to a minimum because of the awkward handling problem—type and copy are much easier to handle than magazines. Magazines are more easily handled directly to the front of the machines, rather than from back to front.

How much does this cost? Nothing, actually. The men now must walk farther to the dump. However, if the racks were behind the machines they would have to walk farther to change magazines. All of which proves that what may be good for one operation may be a disadvantage in another. To go back to the original theme of the article, the only way to come up with the best layout for *your* operation is to analyze your own methods and procedures.

As for finding magazine spaces and magazines, every magazine in the plant has a specific slot—it is never put anywhere else. Each magazine is code numbered so an operator can locate it instantly.

Actually, it doesn't matter much if you walk in circles or in straight lines—you shouldn't have to walk at all to hunt for something that should be located properly in the first place. Time lost "looking for things" is one of the gravest stealers of composing room profits there is in our industry today.

Additional magazine racks can be put in the spaces at either side of the machines. However, this plant tries to limit the number of magazines on its floor. In this plant (and all others we've seen) only so many type faces are active during any one period of time, and need to be on the floor in magazines. Others are kept in sorts cabinets and run in place of another font when they become active.

Mr. DeWitt also asked: Wouldn't the proofreader be happier and more efficient away from the foreman's desk and the two saws across the aisle?

The proofreader here works closely with the foreman. Much of this plant's work is completed in less time than the shift in which it is received, and close control of proof flow is absolutely essential. The saw on the end of the dump is located elsewhere in the actual plant to be more convenient to the bank man. The other saw doesn't seem to bother the proofreader—the plant is in a relatively quiet room.

We sincerely hope this will again point up the necessity for printers to analyze *their own* operations thoroughly if they expect to get the best possible operation for their particular work.

Paul D. Doebler
Collier Elliott and Associates
Garden City, N. Y.

THE DAILY TIMES
DAVENPORT, IOWA
The Enid Daily Eagle
ENID, OKLA.
Pittsburgh Post-Gazette
PITTSBURGH, PA.
THE CORNING LEADER
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ROCHESTER POST-BULLETIN
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AURORA BEACON-NEWS
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Vicksburg Evening Post.
VICKSBURG, MISS.
The Boulder Daily Camera
BOULDER, COLO.
FREMONT TRIBUNE
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St. Paul Pioneer Press
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DETROIT, MICH.
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THE WENATCHEE DAILY WORLD
WENATCHEE, WASH.
The La Crosse Tribune
LA CROSSE, WIS.
EVENING HERALD
ROCK HILL, S. C.
THE WALL STREET JOURNAL
CHICAGO, ILL. AND WASHINGTON, D. C.
Los Angeles Times
LOS ANGELES, CALIF.
THE NEW MEXICAN
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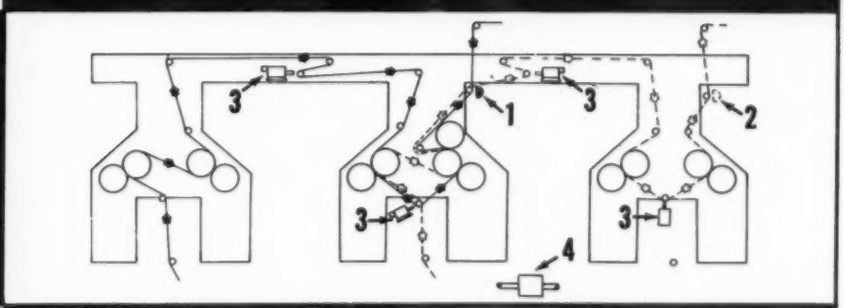

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NEWS ITEMS

Sales Organization for HCM—The HCM Corporation, distributors of engraving equipment and presses, has established a national dealer organization for sales and service. Appointed general sales agent is Consolidated International Equipment & Supply Co. In addition, the following local dealers have been appointed: Ernest Payne Corp.; George R. Keller, Inc.; Southeastern Printers Supply Corp.; Graphic Arts Equipment & Supply Co., and Automatic Saw Co., Printing Equipment Div. Klischograph Southwest, and A. E. Heinsohn Printing Machinery & Supply Co. will handle only the Klischograph engraving line.

Pennsylvania Firms Merge—Dorville Corporation, Paoli, Pa., specialty printers, has been acquired by Delaware Valley Printers, Inc., Philadelphia. Delaware Valley's president, Joseph C. Golden, said that headquarters for the two companies will be in Paoli. Golden is to continue as president of both organizations with I. D. Golden as vice president.

Burgess Cellulose Elects Officers—Victor E. Fishburn, president, Burgess Cellulose Co., has been elected chairman of the board. Fishburn will continue in a full time capacity in his new position. Lloyd A. Giessel, formerly first vice president has been named president of the firm. He has been associated with the company since its incorporation. Other advancements include: B. E. Fishburn, first vice president; Kenneth G. Myers, second vice president, and R. M. Kendle, secretary-treasurer.

V. E. FISHBURN GIESSEL B. E. FISHBURN

Black Hawk Press Purchased—Colonial Press, Sub. of Herbick & Held Printing Co., has entered into an agreement to purchase the Black Hawk Press. The three companies are located in Pittsburgh. Francis A. Roney, president, Colonial Press, said the move was made in order to provide better service and greater economies to customers of both companies. George E. Slair, president, Black Hawk Press, is to be retained in a consulting capacity.

Typographic Consultant for Amsterdam—John Anderson, president, Pickering Press, Maple Shade, N. J., has been retained by Amsterdam Continental Types and Graphic Equipment, Inc. as typographic consultant. According to A.G.E. van der Tuuk, president of Amsterdam, Anderson will provide consultation services to printers, typographers, and designers on use of type faces distributed by Amsterdam.

Central Compounding Appoints Dealers—Seven new dealers to handle its product line have been appointed by Central Compounding Co. as follows: L. H. Kelley Co., 3219 Milan St., Houston, Tex.; Printing Equipment & Supply Co., P. O. Box 5204, Charlotte, N. C.; Southwestern Company, Inc., 1910 N. Big Spring St., Midland, Tex.; Barnhard Company, 11 Governor St., Newark, N. J.; Young-Phillips Sales Co., 134 Spruce St., N.W.,

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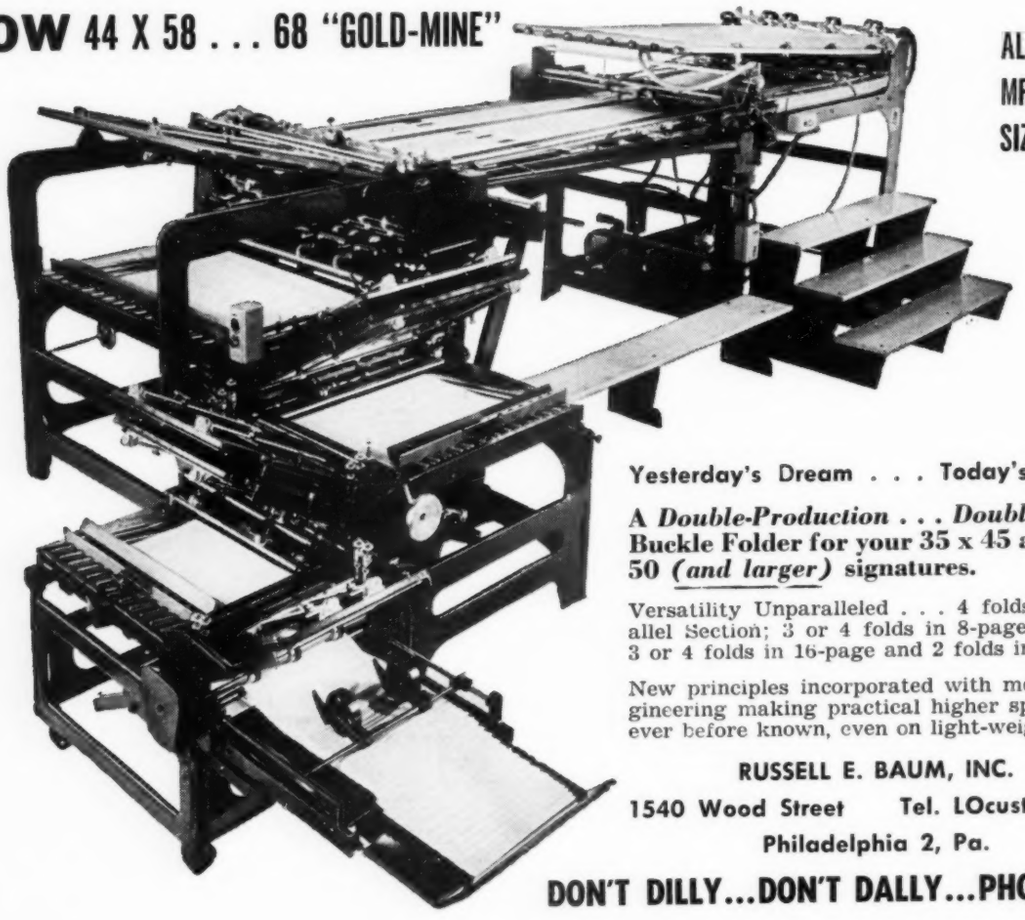

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Chairman of the Board
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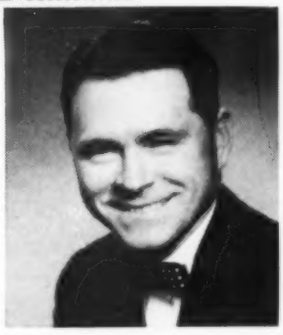

JAMES H. NORICK
President of
Norick Brothers, Inc.

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"NCR Paper has helped us establish new customers and open up new markets not served before. The utility of NCR Paper has helped us project some of our standard forms into new fields of usage. NCR Paper also provides extended forms applications in already-established areas.

"Last year, we had the highest sales volume in our history. We attribute a significant portion of this success to our sales of NCR Paper."

James H. Norick
President of
Norick Brothers, Inc.

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NCR PAPER ELIMINATES CARBON PAPER

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For More Information Circle 208 on Reader Service Card

Winston-Salem, N. C.; McKinley Litho Supply Co., 1623 John St., Cincinnati, and Central Trade Plant, 15 Lyon St., N.E., Grand Rapids, Mich.

Changes at Baltimore Business Forms—In a reorganization of the manufacturing department of Baltimore Business Forms Co., Baltimore, Md., W. Albert Pfeiffer was named general superintendent of manufacturing. He was formerly production superintendent. Milton R. Lepson has assumed the duties of the post vacated by Pfeiffer. He will supervise press, bindery, equipment maintenance, and shipping departments. John W. King, formerly in charge of production planning, was appointed manager of scheduling and production control.

Knowles Appointed by Goss—D. H. Knowles has been appointed chief engineer-administration of the Goss Company, Div. of Miehle-Goss-Dexter, Inc., according to Joseph A. Riggs, president. Duties assumed by Knowles in this post include general administration, advance planning, and research and development for all sections of the firm's engineering department. His most recent position was that of director of research and development.

Hoe Elects Assistant Vice President—The board of directors of R. Hoe & Co., Inc. has elected Roy N. Propst, Jr., assistant vice president. William A. Harloe, vice president, said Propst will be in charge of Hoe's West Coast Saw Div. operations.

KNOWLES

MORRISON

M-G-D Appoints Morrison—The appointment of Edgar G. Morrison to the post of director of corporate product planning of Miehle-Goss-Dexter, Inc, has been announced by Carlton Mellick, M-G-D executive vice president. Prior to his new assignment, Morrison was sales manager of the Goss Company. In his new position, Morrison will be responsible for coordinating the various product planning activities of the corporation's several divisions and subsidiaries, both here and abroad.

Preston Retires from Bureau of Engraving—J. C. Buckbee, Sr., president, Bureau of Engraving, Inc., Minneapolis, has announced that I. S. Preston, executive vice president, recently retired from the company. He retains his post as a member of the board of directors. Preston started with the company in 1921. He has served on the executive committee of Printing Industry of America and on the national board of Lithographers and Printers National Assn.

Jampol's Board of Directors — Lamson Corporation has appointed a board of directors to its newly acquired subsidiary, Jampol Company, Inc. Robert I. Hicks, president, Lamson Corporation, was named chairman of the board. H. M. Jampol, cofounder of the Jampol organization, is president. Other officers are: W. J. Fenwick, vice president and treasurer; W. L. Broad, secretary, and P. Carret, director.

Porter & Dugas Opens British Plant — Porter & Dugas, Inc., manufacturers of Minute-Mount rubber printing plates, has announced the opening of a plant, the Advance Foundry, Ltd., in London, England. Located at 11 Bowling Green Lane, London, E. C. I., the new plant is under the direction of H. E. Morrison and G. F. Wilson.

Promotions at Du Pont—Harlan L. Graham, Jr, director of sales, E. I. du Pont de Nemours and Co., has announced the following changes in the Sales Div., Photo Products Dept.: J. Hugh Kurtz, Jr., New York district sales manager to export sales manager; Fenner G. Headley, new product development manager to New York district sales manager; John L. Morgan, Jr., sales development and technical service manager to new product development manager, and John M. Hustler, produc-

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Today's fastest, most versatile, safest, most accurate Saw Trimmer! Features include: "Behind the Gauge" Workholder, 135-pica Extension Gauge, Miter and Line-up Gauge, Any-Angle Gauge, Saw Grinder, and many others. One of FOUR Standard Models.

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From a thumb print, an idea . . . an industry

Thirty years ago, while developing an adhesive for mounting plates, electrotyper-inventor Herbert Libberton accidentally pressed his thumb into a soft thermoplastic surface. The accurate mold of his thumb sparked the idea of adapting the clean, precise molding qualities of plastic to overcome the laborious routine of wax molding and the limitations of lead in making duplicate plates for the graphic arts industry.

To accomplish this, he established Tenak Products Company, which has pioneered the use of plastics in electrotyping, stereotyping and printing ever since. By producing top quality, precision products and following a dedicated policy of customer service, Tenak has maintained its position as the leading producer of plastics for the letterpress industry. Today, Tenak products are used throughout the world.

Tenak

TENAK PRODUCTS COMPANY • 2615 N. Paulina Street, Chicago 14, Illinois

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For More Information Circle 158 on Reader Service Card

tion superintendent, Parlin, N. J. photo products plant to sales development and technical service manager.

Forrester Joins Chas. T. Main, Inc.—James M. Forrester has recently joined the pulp and paper group of Chas. T. Main, Inc. He was formerly associated with Rust Engineering as a project engineer.

Universal Match Acquires Ink Firm — Sleight and Hellmuth, Inc., Chicago, printing ink manufacturers, has been acquired by Universal Match Corp. according to John L. Wilson, Universal's president. Louis W. Hraback, president of the ink company, and Catherine M. Kent, executive vice president, are to continue in their same capacity, Wilson said.

Heads ATF Typesetter Sales—Dorsey E. Biggs has been named ATF Typesetter sales supervisor, according to John T. Porter, sales manager, General Printing Equipment Div., American Type Founders Co. In his new position, Biggs will supervise the promotion of Typesetter sales throughout the country. For the past 18 months, he has been Typesetter product manager covering the Atlanta, Cincinnati and Dallas branch territories.

Bingham's Kansas City Manager—Sam'l Bingham's Son Mfg. Co. reports that Russ Burget has been transferred from Dallas to Kansas City as branch manager. Burget has served previously in Kansas City as well as in the Houston and Oklahoma City offices. He currently is a district representative in the Ninth Dist., International Craftsmen's Assn.

BIGGS

BURGET

Du Pont Adds Two to Dycril Sales—The Photo Products Dept. of E. I. du Pont de Nemours & Co. has added James E. Lamb and Edwin C. Watson to its Dycril plate sales organization. Lamb is to conduct economic studies in the Graphic Arts while Watson will be responsible for customer service and trade information. They are to be special assistants to Paul H. Smith, printing plate sales manager.

Western Dealer For Varn Products — California Ink Co. and its branches in Hawaii, Canada and the Western United States have been appointed dealers of the chemicals, solvents and non-offset sprays manufactured by Varn Products.

St. Louis Company Acquired—Interstate Printing Co., St. Louis, has been purchased by Simmons-Woodward, Inc., a subsidiary of Universal Match Corp. According to John L. Wilson, president of Universal, Interstate will be merged into Simmons-Woodward to form an expanded label division. William A. Kindorf, president of the acquired company will become vice president of the merged organization and general manager of its label division, said Paul C. Simmons, Jr., president, Simmons-Woodward.

To Represent Kleen-Stik in the West—Ed Dunlap has been appointed to represent Kleen-Stik Products, Inc., in the Northwestern and San Francisco Bay areas. He will make his headquarters at 325 Sacramento St., San Francisco.

Appointed Sales Development Head — Arthur W. Balvanz has been promoted to sales development manager, Frye Manufacturing Co. Named to assume Balvanz's former position of Southwest District representative for Frye is Harvey A. Whiting. The Southwest District includes Texas, Oklahoma, Arkansas, Western Louisiana, and nine Far Western states.

Illinois Association Appointment—Harold R. White, has been appointed assistant general manager and director of management services of Printing Industry of Illinois. The announcement was made by John H. Goessele, Jr., president of the Association. White was formerly a vice president of Manz Corporation, Chicago

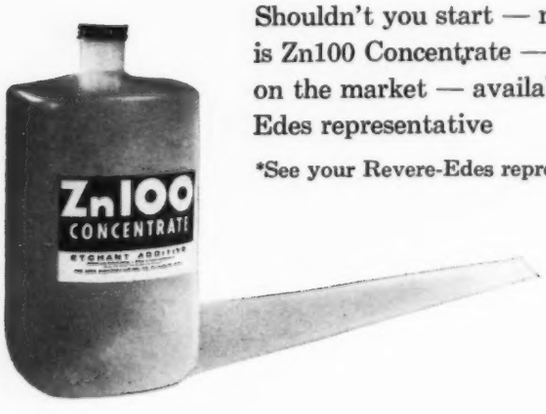
half a million dollars DOWN THE DRAIN

About $362,000.00 worth of *Concentrate* etchant additive would be required to process all the zinc plates now being powderless etched in this country in one year.* In contrast, about $935,000.00 worth of *premixed* etchant additive would be needed* — *an extra one half million dollars to achieve the same results!*

Of course, not all the $500,000.00 is going down the drain. Many photoengravers have stopped wasting money and have started using a *Concentrate etchant additive.*

Shouldn't you start — now? The name to ask for is Zn100 Concentrate — the *only* Concentrate on the market — available through your Edes representative

*See your Revere-Edes representative for details.



REVERE COPPER and BRASS INCORPORATED

Edes MANUFACTURING DIVISION

PLYMOUTH, MASSACHUSETTS

For More Information Circle 57 on Reader Service Card

THE MIAMI HERALD specifies HURLETRON DC PRESS DRIVES for its new modern facilities

In what is thought to be the largest single order ever placed for press drives, the Miami Herald has signed a contract with Electric Eye Equipment Company of Danville, Illinois, to equip seven 9-unit presses and folders with Hurletron DC Press Drives (3,500 H.P.). The Hurletron Drives will be installed to control presses in the Herald's new plant, scheduled for completion in 1961. The ultimate capacity of the plant will be fifteen presses and folders in five lines of three 9-unit presses each. The plant will be one of the most modern in the world and is expected to turn out a million copies daily by 1980.

MORE EFFICIENT PRESS PERFORMANCE THROUGH MODULAR, STATIC CONTROL POWER CONVERSION UNITS

Newspaper and publication presses move through their entire range of speeds—from threading to full speed—smoothly and efficiently under the sensitive guidance of HURLETRON DC PRESS DRIVES. Preset running speeds are held constant and stepless accelerations drastically reduce web breaks. Compact, static and contactless components with high reserve power provide reliable, maintenance-free operation. Hurletron Unitized DC Press Drives for newspapers consist of a compact supervisory control designed to handle up to twelve press units with individual power conversion units for each motor. Single and dual drives are also supplied for publication presses. Based on advanced principles of power conversion, Hurletron Press Drives are tubeless, completely modular and employ the simplest of circuits for more reliable performance and new economy in operation. Write for complete details today.

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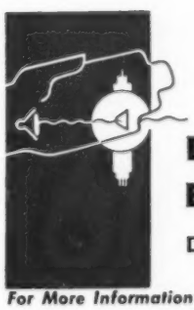

ELECTRIC EYE EQUIPMENT COMPANY

DANVILLE 2, ILLINOIS

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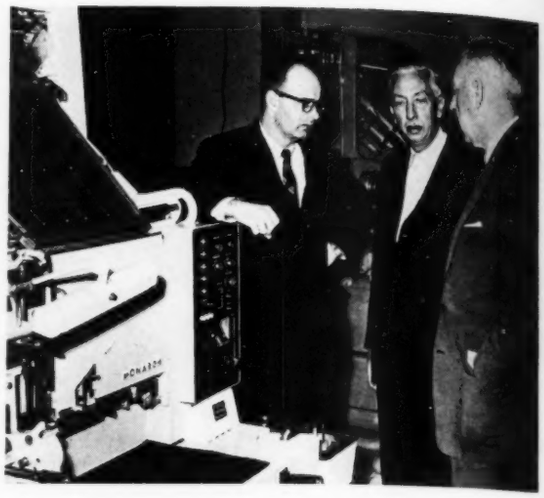
printing firm. Prior to this, he was associated with R. R. Donnelly and Sons Co., Chicago. He was a president of the Franklin Assn. of Chicago and the Chicago Lithographers Assn.

Harold S. Greason Passes—Harold S. Greason, New York manager, American Writing Paper Corp., died May 9. Associated with the company for 40 years, Mr. Greason was named manager in 1938.

New Manager for 3M Plant—William L. Petersen has been promoted to manager of Minnesota Mining & Manufacturing Co.'s new printing products plant at Middleway, W. Va. Presently, Petersen is process engineering manager of the firm's Hastings, Minn, plant.

Publishers See Intertype's Monarch — The Intertype Monarch linecasting machine draws the attention of two publishers of Copley Newspapers visiting Harris-Intertype's New York showroom. Left to right, are: Virgil Schroeder, Intertype; John F. Lux, Joliet, (Ill) *Herald-News*, and William Hart, Aurora, (Ill.) *Beacon-News*. The newspapers have ordered 12 Monarch machines.



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The pot, throat and mold are thermostatically controlled to any temperature range on the Universal Strip Caster. Look at the thermometer and take the guess work out of casting quality material.
Compare production, performance and price and you'll choose the Universal Strip Caster.

Send for free folder and sample 2 pt. hairline

UNIVERSAL MONO-TABULAR CORPORATION
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Flint Named to Main Directorship—C. M. Flint has been elected a director of Chas. T. Main, Inc., a consulting engineering firm. Prior to his joining the Main firm, Flint established and directed a research program for the American Newspaper Publishers Assn.

Huber Appoints Purchasing Agent—Louis R. Suriani has been appointed to purchasing agent of the Ink Div., J. M. Huber Corp. In a joint announcement by Dir. of Purchases, Edward M. Krech, and Ink Div, Gen. Factories Mgr., Douglas J. Campbell, Suriani's present position of production manager has been expanded to include the new assignment.

Heads Production at Strong Electric—Leo A. Altenbach has been named vice president-production at Strong Electric Corp. He has been associated with the company since 1927.

Michigan Litho Names Vice Presidents—The board of directors of Michigan Lithographing Co., Grand Rapids, Mich., has elected William C. Gross, vice president-production and Kenneth A. Oldenburg, vice president-label sales. Gross joined the company last year as plant manager. Oldenburg was formerly manager of label sales.

To Represent American Carbon—American Carbon Paper Corp. has named Robert J. Bridell as its representative in the South and Southeastern portions of the United States. His office will be located at 711 Grant Bldg., Atlanta.

Hoe Announces Transfer—As of July 1, Peter J. Peaquin will be transferred from the New York office of R. Hoe & Co. to the firm's Chicago sales office. W. W. Henderson, vice president, said Peaquin will serve as sales engineer for the Midwestern territory.

Kodak Elects New President—William S. Vaughn has been elected president, Eastman Kodak Co., according to Thomas J. Hargrave, chairman of the board.

(*Continued on Page* 20)

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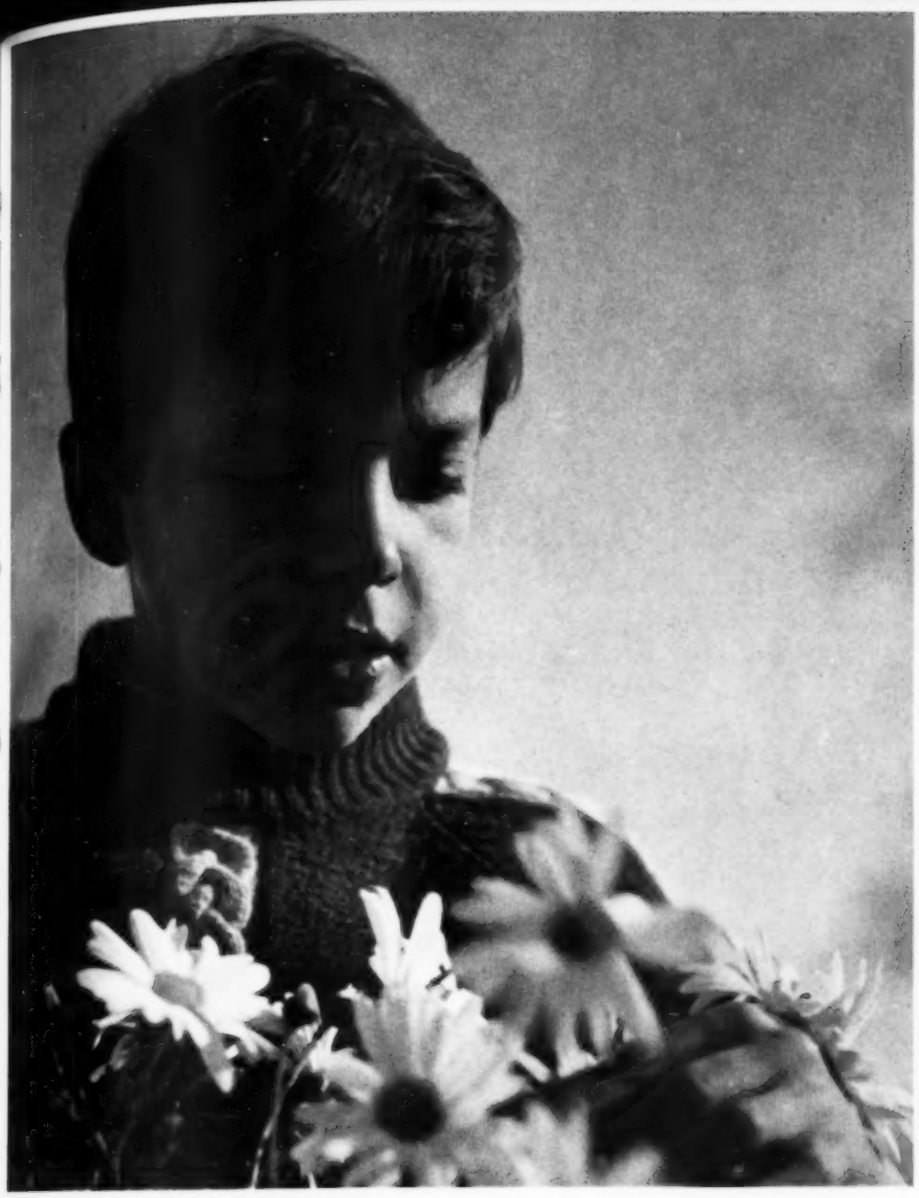

Printed offset on Atlantic Opaque, Vellum Finish • Basis 80

They were for your best girl. You found them growing in a vacant lot. And when you saw their bright colors, you thought: Oh, what a wonderful present!

Never in the world was there such a bouquet. Didn't she say so herself? And smother you with kisses till you nearly burst with love and pride?

Your image of love has grown more complex. But your sense of pride is still young and enthusiastic. It's what made you turn out that rush printing job in record-breaking time. A darn *good* job, too.

And if our good papers helped make it possible, who could blame us for feeling proud with you?

EASTERN Atlantic Mark II
EXCELLENCE IN FINE PAPERS

ATLANTIC FINE PAPERS

EASTERN FINE PAPER AND PULP DIVISION · STANDARD PACKAGING CORPORATION · BANGOR, ME.

Keeping one eye on quality– and the other on the budget?

Then Eastern's *Manifest* line is *your* paper. Bond, Duplicator, Mimeo, or Ledger—take your choice. *Economy priced,* yet you get high bulk, even caliper and correct moisture content in all four. This means faster, trouble-free production. Brighter, more sparkling copies, too.

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Production facts: This insert lithographed on new, brilliant white Atlantic Opaque, Vellum finish, basis 80, on a 52 x 77 4-color press, 30 up at 4,000 IPH. Sheet size 49½ x 76¾. Color sequence was yellow, red, blue, black. Press plates were deep etch aluminum from 175-line screen positives.

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BRIDGEPORT
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EAST HARTFORD
John Carter & Co., Inc.
NEW HAVEN
Whitney-Anderson Paper Co., Inc.
STAMFORD
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FLORIDA
MIAMI
Coronet Paper Products Co.
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GEORGIA
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Reliable Paper Company
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Indiana Paper Co., Inc.
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BOSTON
John Carter & Co., Inc.
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Von Olker-Snell Paper Co.
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NEW HAMPSHIRE
CONCORD
John Carter & Co., Inc.
MANCHESTER
C. H. Robinson Co.

NEW JERSEY
NEWARK
Central Paper Co.
TRENTON
Central Paper Co.

NEW YORK
ALBANY
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BUFFALO
Franklin-Cowan Paper Co.
JAMESTOWN
The Millcraft Paper Co.
NEW YORK
Berman Paper Corp.
Duplicating Papers, Inc.
Inter-City Paper Co.
Majestic Paper Corp.
Geo. W. Millar & Co., Inc.
Milton Paper Co., Inc.
Pohlman Paper Co., Inc.
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NORTH CAROLINA
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Snyder Paper Corp.
CHARLOTTE
Snyder Paper Corp.

OHIO
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The Millcraft Paper Co.
CINCINNATI
The Johnston Paper Co.
Merchants Paper Co.
CLEVELAND
The Millcraft Paper Co.
COLUMBUS
Sterling Paper Co.
MANSFIELD
Sterling Paper Co.
TOLEDO
The Millcraft Paper Co.

PENNSYLVANIA
ALLENTOWN
Kemmerer Paper Company
LANCASTER
Garrett-Buchanan Co.
PHILADELPHIA
Garrett-Buchanan Co.
Molten Paper Co.
PITTSBURGH
Darragh Paper Co.
READING
Garrett-Buchanan Co.

RHODE ISLAND
PROVIDENCE
Narragansett Paper Co.
John Carter & Co., Inc.

TENNESSEE
CHATTANOOGA
Sloan Paper Company

TEXAS
DALLAS
Olmsted-Kirk Company
FORT WORTH
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HOUSTON
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Olmsted-Kirk Company
WACO
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VIRGINIA
RICHMOND
Virginia Paper Co.

WASHINGTON, D. C.
Virginia Paper Co.

WISCONSIN
MILWAUKEE
Reliable Paper Co.

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Drill for Profits! Increase Your Potential with Fast, Accurate, Low Cost Multiple Hole Drilling

It takes just 2 seconds to drill...or drill and slot... two or more holes in a full 2¼" lift with an efficient Lawson Hi-Speed Multiple Hole Drill. High speed production like this means many profitable new opportunities for you...pad and tablet jobs—business and school supplies—specialty work of all types.

There are three unbeatable models of the Lawson Hi-Speed Drill: Series A, the AutoDex, and now the new low cost Series B at *only $2675 f.o.b. Cincinnati!* All models have fixed table construction that brings the drill down to the work for unmatched accuracy and smooth work flow...up front controls for quick set up and easiest operation...minimum center-to-center of 1¼"...famous Lawson simplified drill heads ...rugged trouble-free design. Maximum center-to-center on the B is 19¾"; on the Series A it's 27"

And for really heavy volume work to 11 x 11", there's the Lawson AutoDex—automatic from in-feed to built-in conveyor. Pack and ship right from the machine...at speeds of 20 lifts a minute!

You, too, can drill for profits with Lawson's Hi-Speed Drill. When may we arrange a demonstration?

THE LAWSON COMPANY
Division of Miehle-Goss-Dexter, Inc.
Chicago 8, Illinois

MGD

For More Information Circle 103 on Reader Service Card

News Items

(Continued from Page 16)

Vaughn succeeds Albert K. Chapman who was elected vice chairman of the board. Other changes include the advancement of M. Wren Gabel from assistant general manager to general manager succeeding Vaughn.

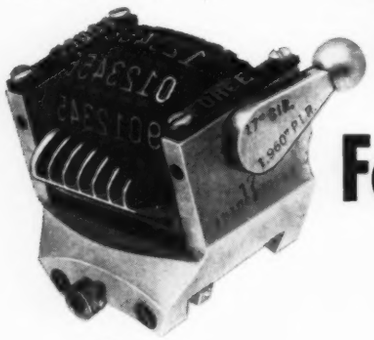
Pressroom Superintendent Dies — Ernest J. Sullivan, 73, pressroom superintendent, Boston *Record-American-Sunday Advertiser,* died on April 28. Mr. Sullivan had been employed by the Hearst chain of newspapers since its inception in Boston in 1904.

President's Assistant Appointed—Robert S. Hickox has been named assistant to Frank J. Dillon, president, Bailey Press, Boston. Hickox was formerly associated with Recording & Statistical Corp. in sales and production capacities.

Flint Adds to Sales Staff—Donald R. Phillips, formerly associated with the Hackensack (N. J.) *Bergen Evening Record* has been appointed to the sales staff of the Flint Ink Corp. His territory includes newspapers in the Mid-Atlantic states under the direction of Millard C. Pintard, newspaper ink division vice president.

85 Years of Leadership Produced the Force 1000 SFM* Numbering System!

Convex Curved Base
Female Dovetail Head



Straight Flat Base
Male Dovetail Head

Since 1875, William A. Force & Company has pioneered new developments in numbering equipment. Latest development is the "1000 SFM Universal Rotary Numbering Head Assembly System" providing accurate numbering at 1000 Surface Feet per Minute. Customized to your exact needs, this System speeds-up production on complex jobs without the cost of special "built-to-order" machines. You start with a basic set-up, and build around it as new needs arise. Straight or convex style rotary heads are available for printing across or along the web.

**On 17" circumference presses and larger.*

Write for Force Rotary Heads and Typographs booklet

The FORCE Line of NUMBERS

WM. A. FORCE & CO., Incorporated
216 Nichols Ave.,
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MEETINGS for the PRINTING INDUSTRY

American Photoengravers Assn.—1960 Conv., Hotel Statler, Buffalo, N. Y., Oct. 9-12. Exec. Secy. Frank J. Schreiber, 166 W. Van Buren St., Chicago 4.

ANPA Mechanical Conf.—1960 Conf., Hotel Americana, Miami, June 19-22. Mgr. Richard L. Lewis, ANPA Mechanical Dept., 750 Third Ave., New York 17.

Book Manufacturers' Institute — 1960 Conf., Boca Raton Hotel, Boca Raton, Fla., Oct. 19-22. Secy. Miss A. G. Watson, 25 W. 43rd St., New York 36.

Fifth District Craftsmen's Conf.—Secy.-Treas. George W. Thompson, Toledo Colortype Co., 1711 Jefferson Ave., Toledo, O.

Flexographic Technical Assn.—1961 Meeting, Hotel Roosevelt, New York, Feb. 9-10. Exec. Secy. Julian Ross, 220 W. 42nd St., New York 36.

Graphic Arts Assn. Executives—1960 Fall Meeting, Washington, D. C., Oct. 21-22. Secy.-Treas. Thomas J. Curran, Exec. Secy. Label Mfrs. Natl. Assn., Inc., 1025 Connecticuit Ave., N.W., Washington 6, D. C.

Gravure Technical Assn.—1961 Conv., Hotel Drake, Chicago, Mar. 8-10. Exec. Secy. Edward S. St. John, Room 4800, 30 Rockefeller Plaza, New York 20.

Great Lakes Mechanical Conf.—1961 Conf., Hotel Gibson, Cincinnati, Jan. 22-24. Secy. John E. Innis, R. R. No. 1, Box 546, Indianapolis 27, Ind.

Illinois Newspaper Mechanical Conf.—1960 Conf., St. Nicholas Hotel, Springfield, Ill., Oct. 29-30. Secy.-Treas. Arthur Kramer, Joliet (Ill.) *Herald-News.*

Intl. Assn. of Electrotypers & Stereotypers, Inc.—1960 Conv., Continental-Hilton Hotel, Mexico City, Mexico, Oct. 23-26. Exec. Secy. Floyd C. Larson, 758 Leader Bldg., Cleveland 14.

Intl. Assn. of Printing House Craftsmen—1960 Conv., Hotel Biltmore, Atlanta, Aug. 7-10. Exec. Secy. Pearl E. Oldt, 411 Oak St., Cincinnati 19.

Intl. Graphic Arts Education Assn. — 1960 Conf., University of Houston, Houston, Aug. 18-23. Exec. Secy. Samuel M. Burt, 5728 Connecticut Ave., N.W., Washington 15, D. C.

Intl. Printers Supply Salesmen's Guild—1960 Meeting, Biltmore Hotel, Atlanta, Aug., 5-6. Secy. Harry Deck, 75 E. Wacker Dr., Chicago.

Intl. Typographic Composition Assn.—1960 Conv., Hotel Statler Hilton, Dallas, Oct. 19-22. Exec. Secy. McKinley M. Luther, Washington Bldg., 15th St. and New York Ave., N.W., Washington 5, D. C.

(Continued on Page 24)

Now You Can Try The Beautiful New

BLUE RIBBON CONTRAST MAT

Instantly Popular With All Users

BLUE RIBBON*

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The Contrast is an entirely new mat in the Blue Ribbon Line featuring Color Contrast with Beautiful Reproduction ★ Ample Casts ★ Fine Release ★ Accurate Register

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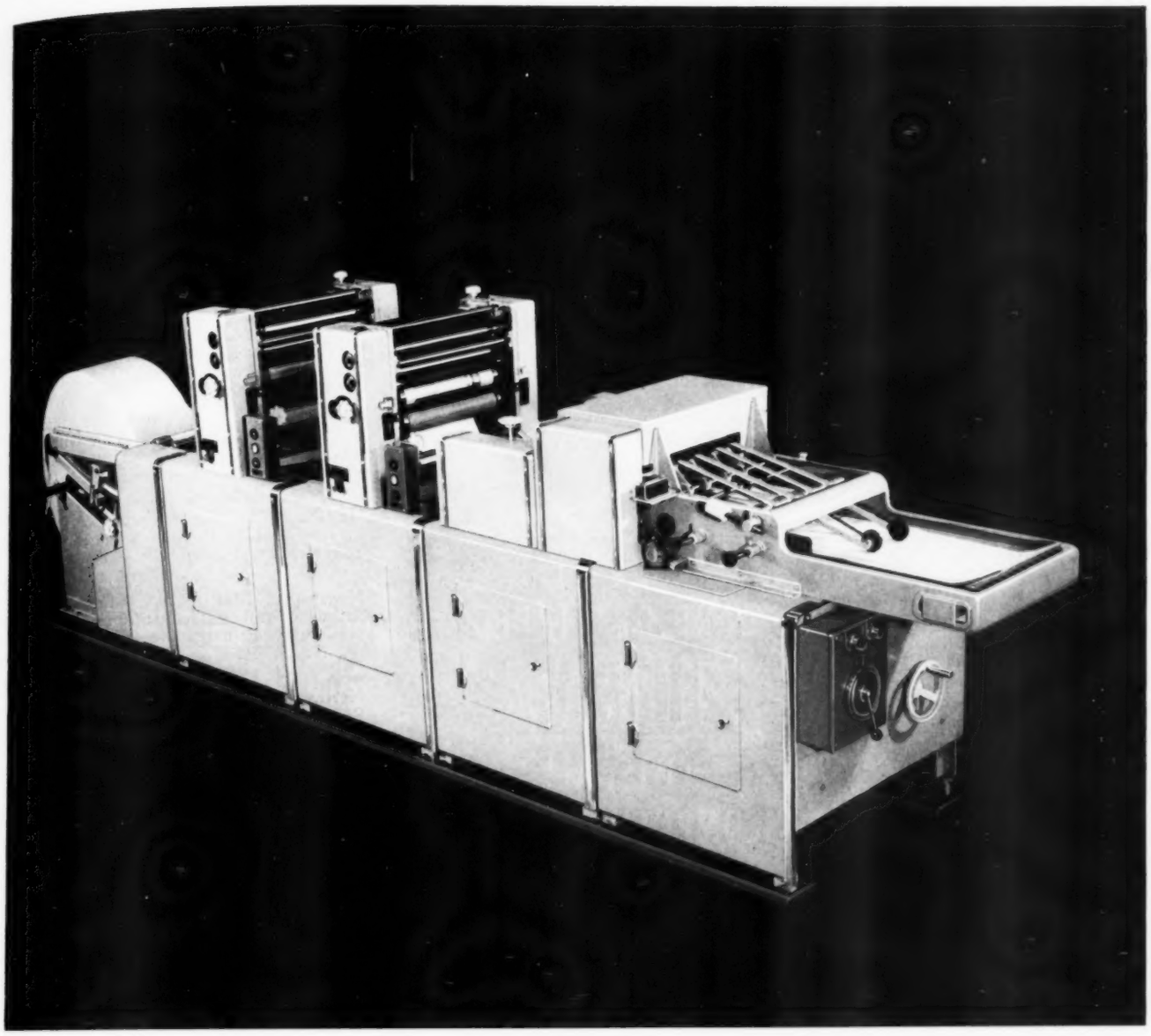
THE TANDEMER PRESS

Modular Roll-fed Presses

In its new high-speed Tandemer Press, Didde-Glaser offers a low-cost offset jobber that brings "big press" performance within the reach of every printer – large or small!

The Tandemer consists of compact, self-aligning units that can be added or removed according to job requirements . . . and can be purchased as needed. For the business that makes up a major part of your volume the Tandemer "starter" set – comprised of roll stand, one offset printing unit and one



at HALF the Price!

terminal cut-off unit – will print anything a small sheet-fed press will run . . . 4 TIMES AS FAST!

Make ready is fast and simple. Small (8½") one-around plates let printers maintain a low on-press cost for a wide variety of work. Printing units, accessories, and attachments are interchangeable.

If you've been searching for a roll-fed offset press that requires a low investment – plus economy in space, labor, and operation – investigate the Tandemer! An inquiry on your company letterhead will bring a prompt reply. Please write: Didde-Glaser, Inc., Dept. PP6, 50 Hi-Way and West 12th Avenue, Emporia, Kansas.

Didde-Glaser, INC
Emporia, Kansas

Designers / Manufacturers / Distributors of Graphic Arts Equipment

For More Information Circle 53 on Reader Service Card

Meeting Dates

(Continued from Page 20)

Iowa Newspaper Mechanical Conf.—Secy.-Treas. Paul F. Kamler, Mechanical Supt., Clinton, (Ia.) *Herald.*

Kansas-Missouri Newspaper Mechanical Conf.—Kansas Gen. Mgr., Larry Miller, Kansas Press Assn., 701 Jackson St., Topeka, Kans. Missouri Secy-Treas. William A. Bray, Missouri Press Assn., 115 Walter Williams Hall, Columbia, Mo.

Lithographers and Printers National Assn.—Dir. Oscar Whitehouse, 1025 Connecticut Ave. N.W., Washington 6, D. C.

Mid-Atlantic Newspaper Mechanical Conf.—1961 Conf., Pittsburgh, (dates in March and Hotel to be announced). Gen. Mgr. G. Richard Dew, 2717 N. Front St., Harrisburg, Pa.

National Assn. of Litho Clubs, Inc.—1961 Conv., (hotel to be announced), Dayton, O., May 4-6. Exec. Secy. Raymond E. Geegh, 1915-33rd St. S. E., Washington 20, D. C.

National Assn. of Photo-Lithographers—1960 Conv., Conrad Hilton Hotel, Chicago, Oct. 5-8. Exec. Dir. Walter E. Soderstrom, 317 W. 45th St., New York 36, New York.

National Paper Trade Assn.—1960 Conf., Conrad Hilton Hotel, Chicago, Sept. 19-21. 1961 Conf., Waldorf Astoria, New York, Mar. 26-29. Exec. Secy. O. Glenn Leach, 220 E. 42nd St., New York 17.

National Printing Equipment Assn., Inc.—1960 Meeting, Sheridan-Park Hotel, Washington, D. C., Oct. 25-26. Exec. Secy. Harry L. Gage, 140 Nassau St., New York 38.

National Safety Council Printing and Publishing Section—1960 Meeting, Conrad Hilton Hotel, Chicago, Nov. 18. Staff Rep. Harry C. Johnson, National Safety Council, 425 N. Michigan Ave., Chicago 11.

New England Daily Newspaper Composing Room Executives Assn.—Exec. Secy. Lewis R. Greene, Westerly (R.I.) *Sun.*

New England Newspaper Mechanical Conf.—1960 Conf., Hotel Statler-Hilton, Boston, Oct. 15-16. Secy.-Treas. Walter C. Crighton, New London (Conn.) *Day.*

New York State Capital District Mechanical Conf.—Conf. Dir. Floyd Laurenty, Albany (N. Y.) *Times-Union.*

Newspaper ROP Color Conf.—Secy. Arthur Brashears, American Assn. of Newspaper Representatives, 141 E. 44th St., New York.

Northwest Mechanical Conf.—Secy.-Treas. Ralph N. Carson, Dunwoody Industrial Institute, 818 Wayzata Blvd., Minneapolis.

Pacific Newspaper Mechanical Conf.—1960 Conf., Multnomah Hotel, Portland, Ore., Sept. 23-25. Secy. Donald Newhouse, Portland (Ore.) *Oregonian.*

Packaging Institute Assn.—1960 Meeting, Hotel Statler, New York, Oct. 31-Nov. 2. Exec. Dir. Chas. A. Feld, 342 Madison Ave., New York 17.

Printing Industry of America—1960 Conv., Hotel Sheraton Park, Washington, D. C., Oct. 24-27. Gen. Mgr. Bernard Taymans, 5728 Connecticut Ave. N. W., Washington 15, D. C.

Research and Engineering Council — 1961 Meeting, Hotel Fort Des Moines, Des Moines, Ia., May 22-24. Managing Dir. Robert E. Rossell, 5728 Connecticut Ave. N.W., Washington 15, D. C.

Screen Process Printing Assn., Intl.—1960 Conv., Hotel Sherman, Chicago, Nov. 11-13. Exec. Secy. Robert H. Blundred, 549 W. Randolph St., Chicago 6.

SNPA (Eastern Div.) Mechanical Conf.—1960 Conf., Hotel Dinkler-Tutwiler, Birmingham, Ala., Aug. 14-16. Secy. Walter C. Johnson, Jr., P. O. Box 1569, Chattanooga 1, Tenn.

SNPA (Western Div.) Mechanical Conf.—1961 Conf., Hotel Adolphus, Dallas, Mar. 5-7. Secy. Claude V. Capers, P. O. Box 1569, Chattanooga 1, Tenn.

Southern Graphic Arts Assn. — Secy. Charles E. Kennedy, 1514 South St., Nashville 2, Tenn.

Technical Assn. of the Graphic Arts—Secy.-Treas. Cyril A. Horton, Research Laboratories, Eastman Kodak Co., Rochester 4, N. Y.

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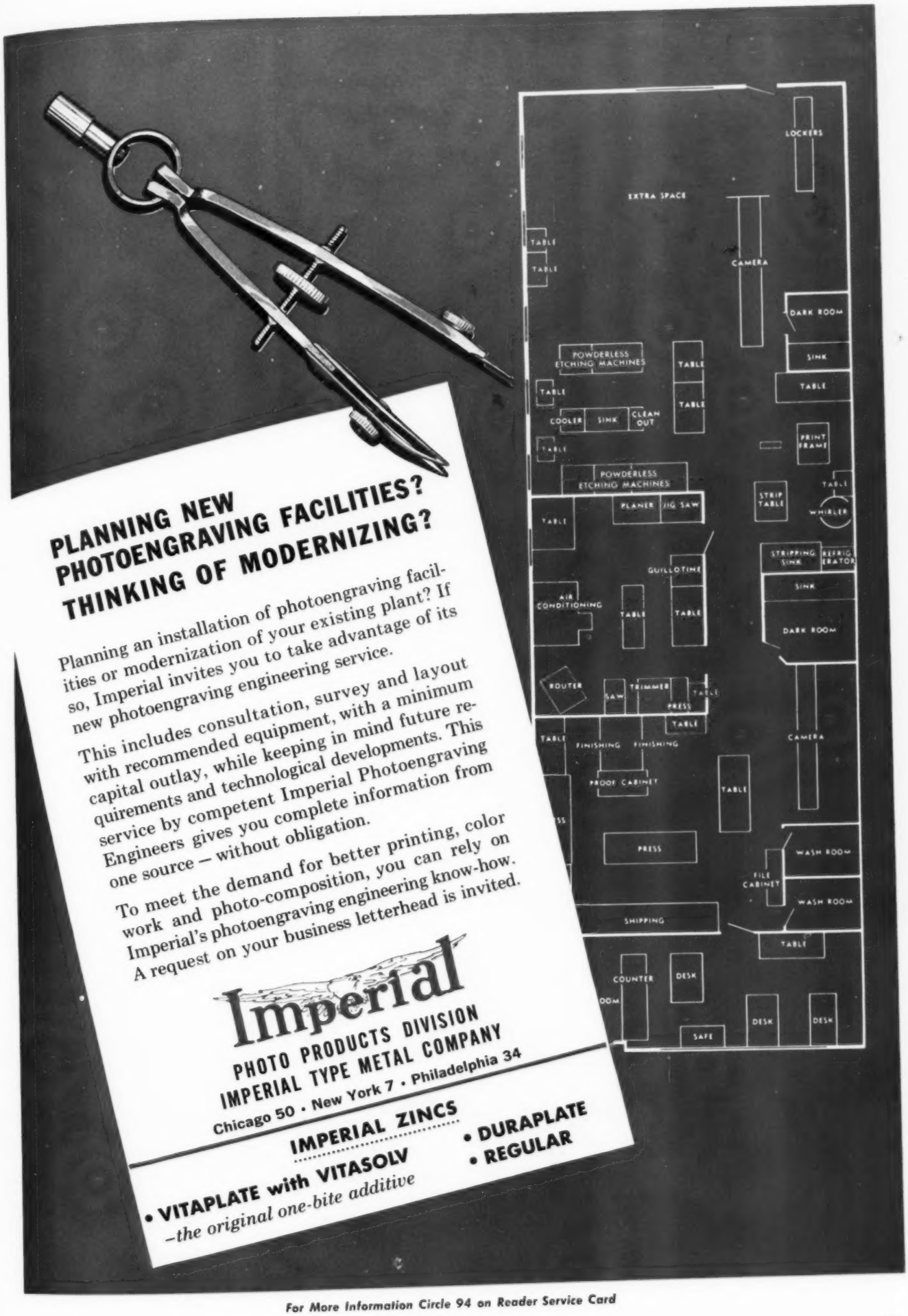

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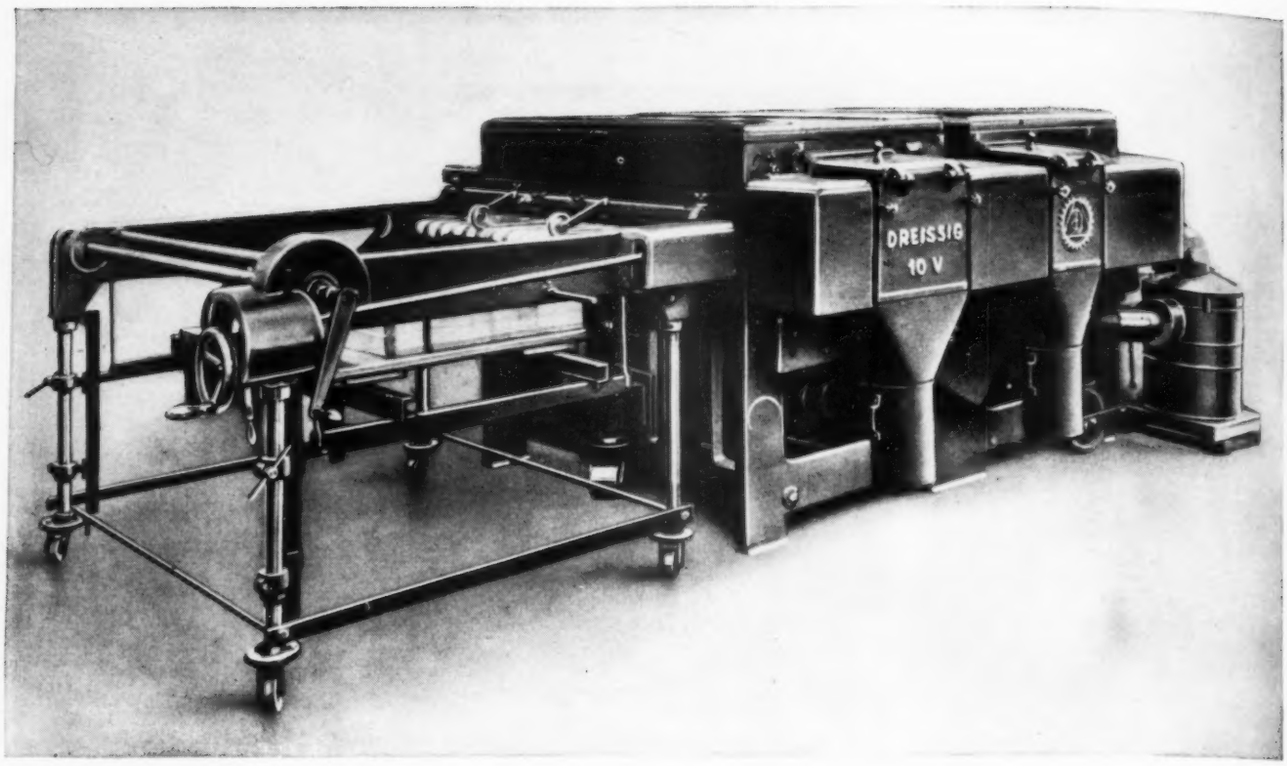

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THE KOMBI 10V

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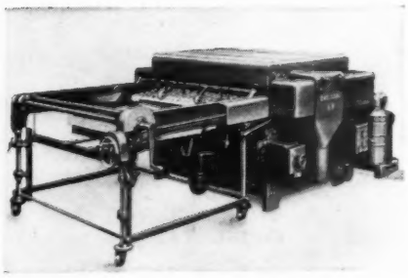

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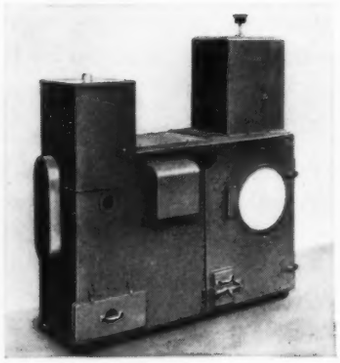

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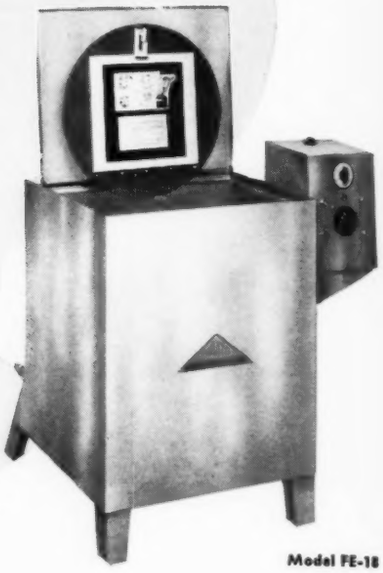

Model FE-18

WHAT IS THE DIRATS MODEL FE-18?

The Model FE-18 is a fully automatic, but smaller, *lower priced* model of the World Famous Dirats Powderless Etcher. It embodies a revolutionary concept in the art of powderless etching . . . the result of a 3 year research program, just completed.

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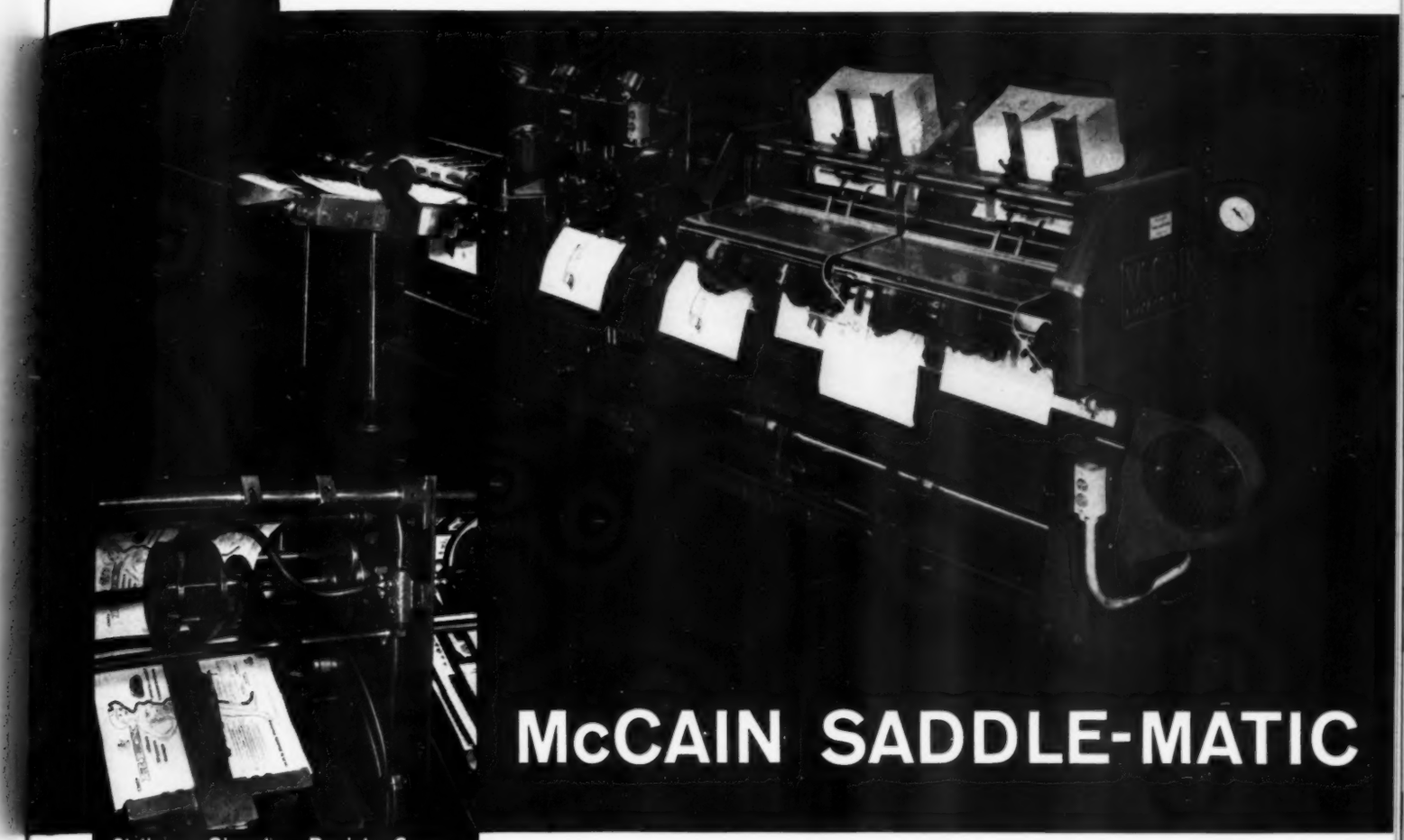
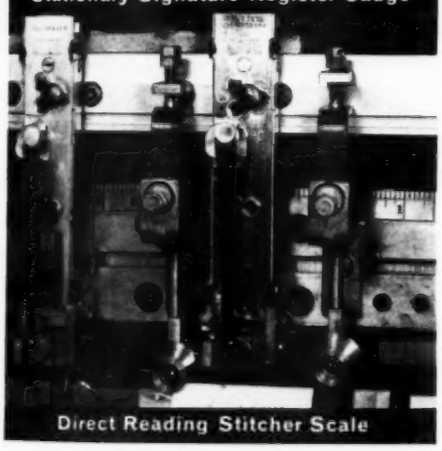


McCAIN SADDLE-MATIC

Stationary Signature Register Gauge



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Low Cost Automatic Saddle Binding...Extra Profits For You

A completely new low cost automatically fed stitcher, the McCain Saddle-Matic from Dexter is specifically designed to handle all of the average plant's saddle bound work...efficiently and economically.

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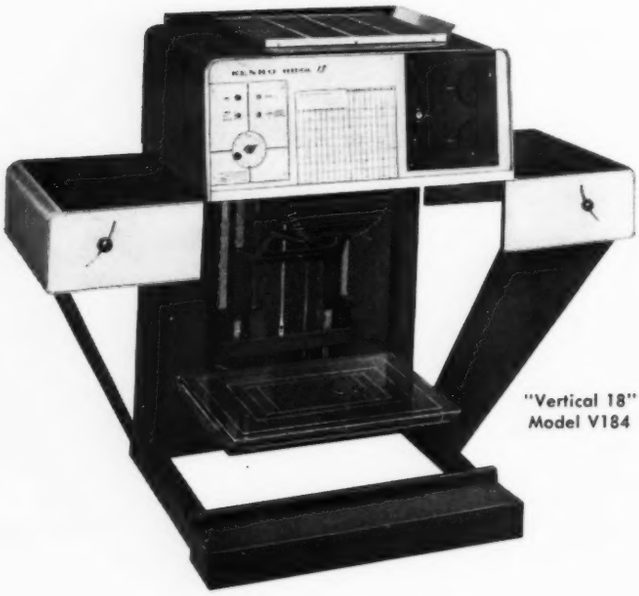
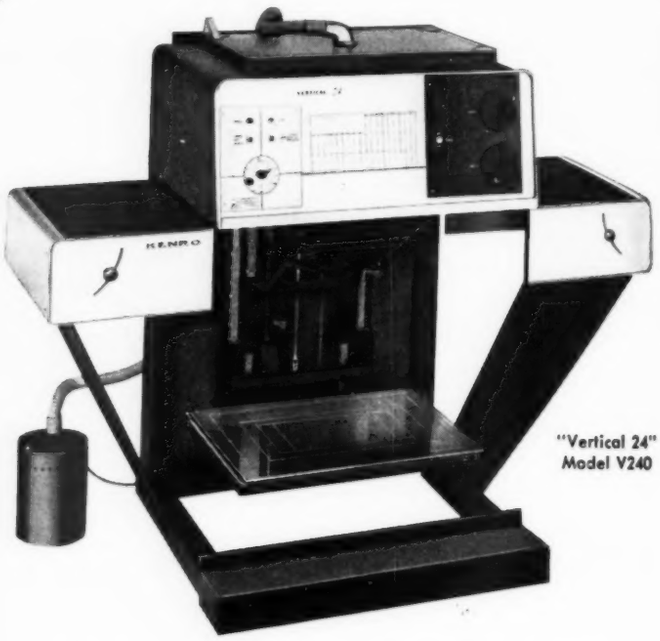
Which Kenro VERTICAL Camera is best for your work?



"Vertical 18"
Model V184

THE "VERTICAL 18" is extremely versatile. It makes line and halftone negatives up to 14" x 18" in size, can be equipped with stayflat or vacuum back. Interchangeable heads also available for making Ektalith, Gevacopy or xerographic exposures. When equipped with Prismatic head you can use your Kenro camera for making right-reading film negatives or direct photocopies of reproduction quality in one step, without an intermediate negative.

Regardless of your press size, if copy calls for shooting 8½" x 11" pages two-up or 11" x 17" bleed, then the Kenro "Vertical 18" is the camera for you.



"Vertical 24"
Model V240

THE "VERTICAL 24" brings you the advantage of big camera capacity in an economical, compact, space and step saving unit. It makes line and halftone negatives and other types of exposures up to 18" x 24". Shoots 8½" x 11" copy four-up, covers a full size newspaper page. Is equipped with vacuum back, and can also be equipped with adapters for making Ektalith, Gevacopy or xerographic exposures.

Prismatic head allows you to make one-shot proofs of paste-ups, enlargements or reductions of type matter or illustrations quickly and economically. If you run a newspaper, need big negatives or have a high volume of work, install a Kenro "Vertical 24".

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Ask your dealer to demonstrate . . . or write for information and prices.

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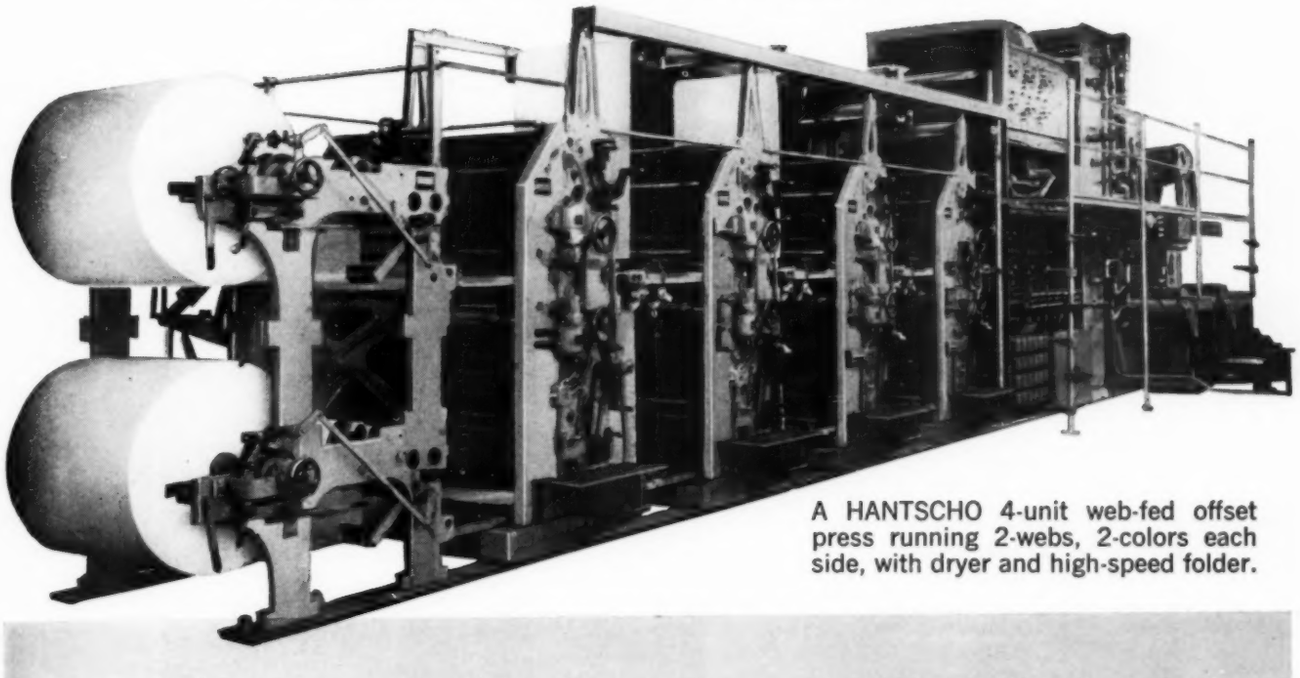

A HANTSCHO 4-unit web-fed offset press running 2-webs, 2-colors each side, with dryer and high-speed folder.

Every publisher and printer aims for quality and, when this can be combined with high hourly production, the results spell satisfaction for the customer and large profits for the producer.

Whether you print magazines, books, inserts or supplements on news print or coated stock for signature, roll or sheet delivery, there is a HANTSCHO press built to meet your requirements.

Or, if you have a problem that calls for a certain size press with special attachments to handle unusual types of work, HANTSCHO will collaborate with you in designing a custom-built model to suit your needs. We invite your inquiries.

Write, on your letterhead, for this brochure describing the model illustrated and showing other arrangements of one to four units for single and multi-color printing.

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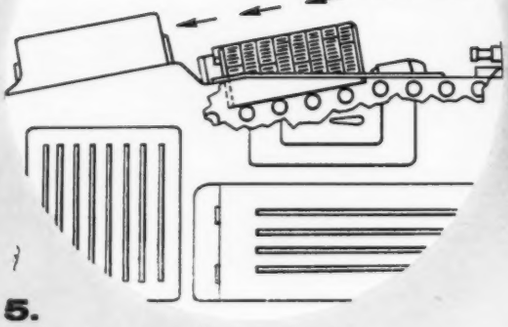
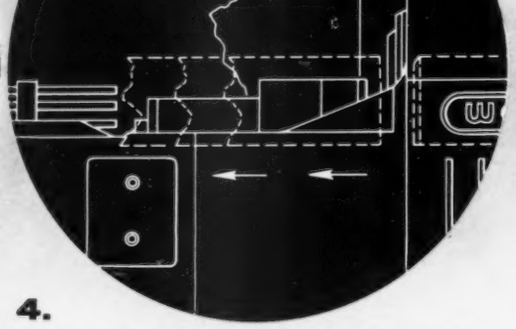


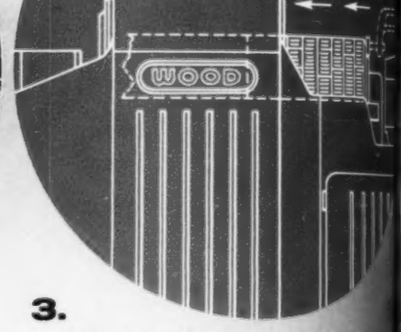
5.

The plate, carried on power-driven rollers, now enters the milling station where underside pockets are milled. The finished plate is released onto delivery station, coupled to press room plate conveyor.



4.

Severed tail is being ejected onto an automatic conveyor to be returned to furnace. Trimmed plate is then automatically withdrawn from arch and then positioned on cooling stand.



3.

A cast plate is shown entering shaving [illegible] where tail is severed, plate shaved, [illegible] and then ejected, ready for finishing [illegible] tion. These operations are automatic.

The WOOD SUPERMATIC

WOOD presents the latest innovation in the production of stereotype plates . . . the SUPERMATIC . . . a horizontal, streamlined plate casting machine which *automatically* casts, shaves, severs and disposes of tail, cools and transports a finished plate to a milling machine, or onto the conveyor rack, direct to the press.

The SUPERMATIC insures greatly increased efficiency and economy of operation. Every plate casting operation, formerly performed manually on a Pony Autoplate, is now done automatically, *and more accurately!* The operator merely sets a counter predetermining the number of plates to be cast from each mat; every succeeding phase of the casting cycle, from pouring to delivery of the finished plate, is under automatic control.

As a result of automatic control, every plate is uniform in curvature and density. We invite you to investigate the many advantages of this modern method of automatic plate casting.

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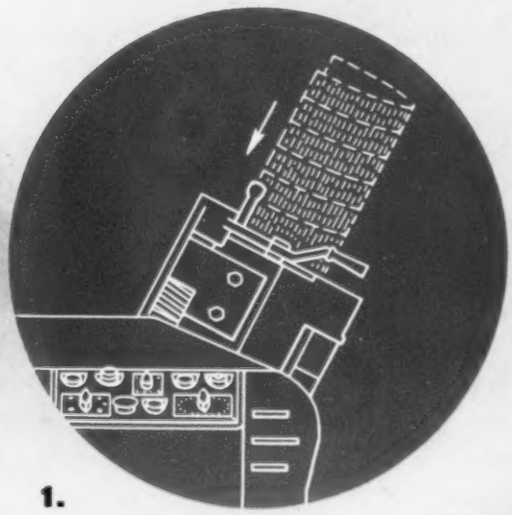
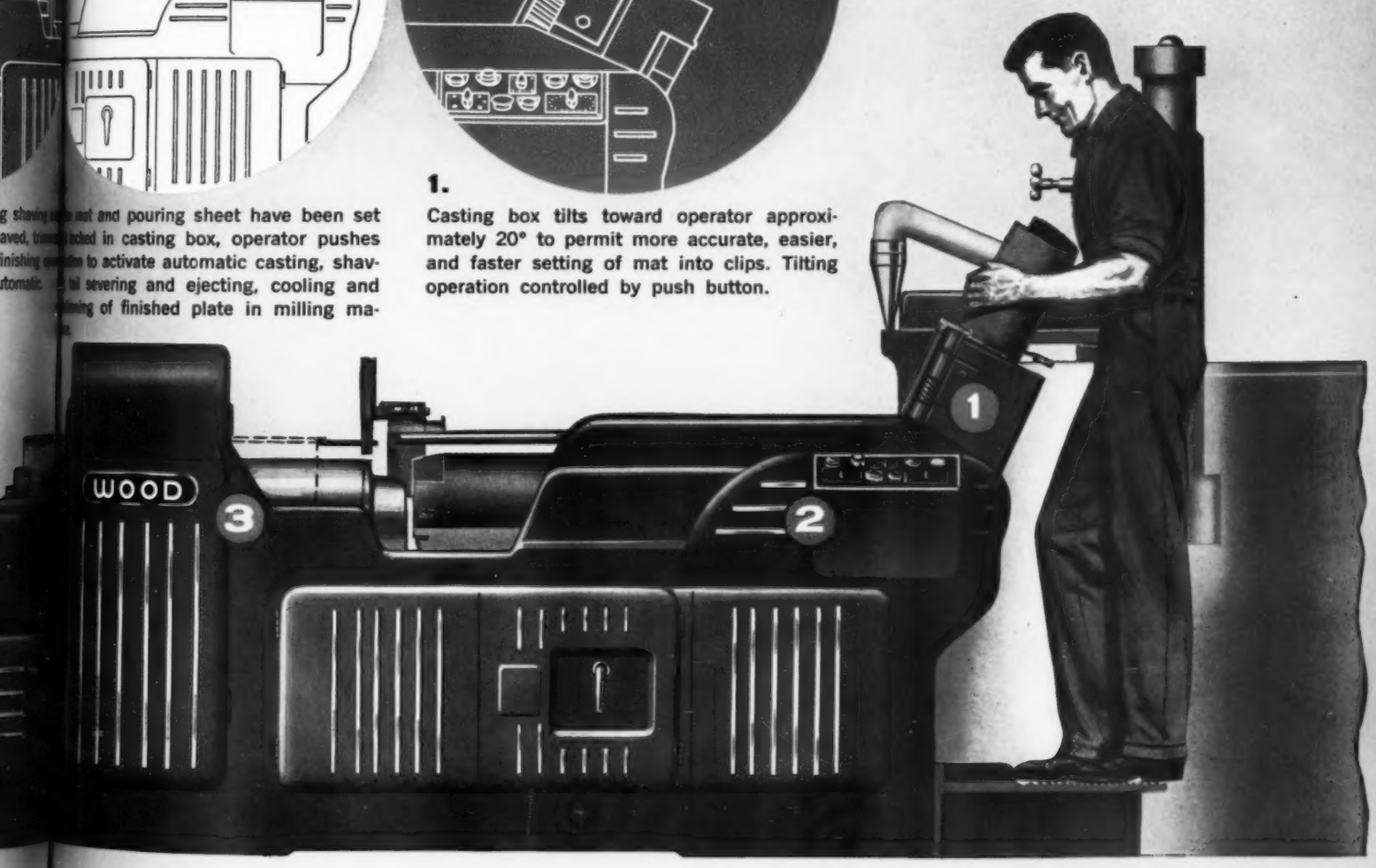
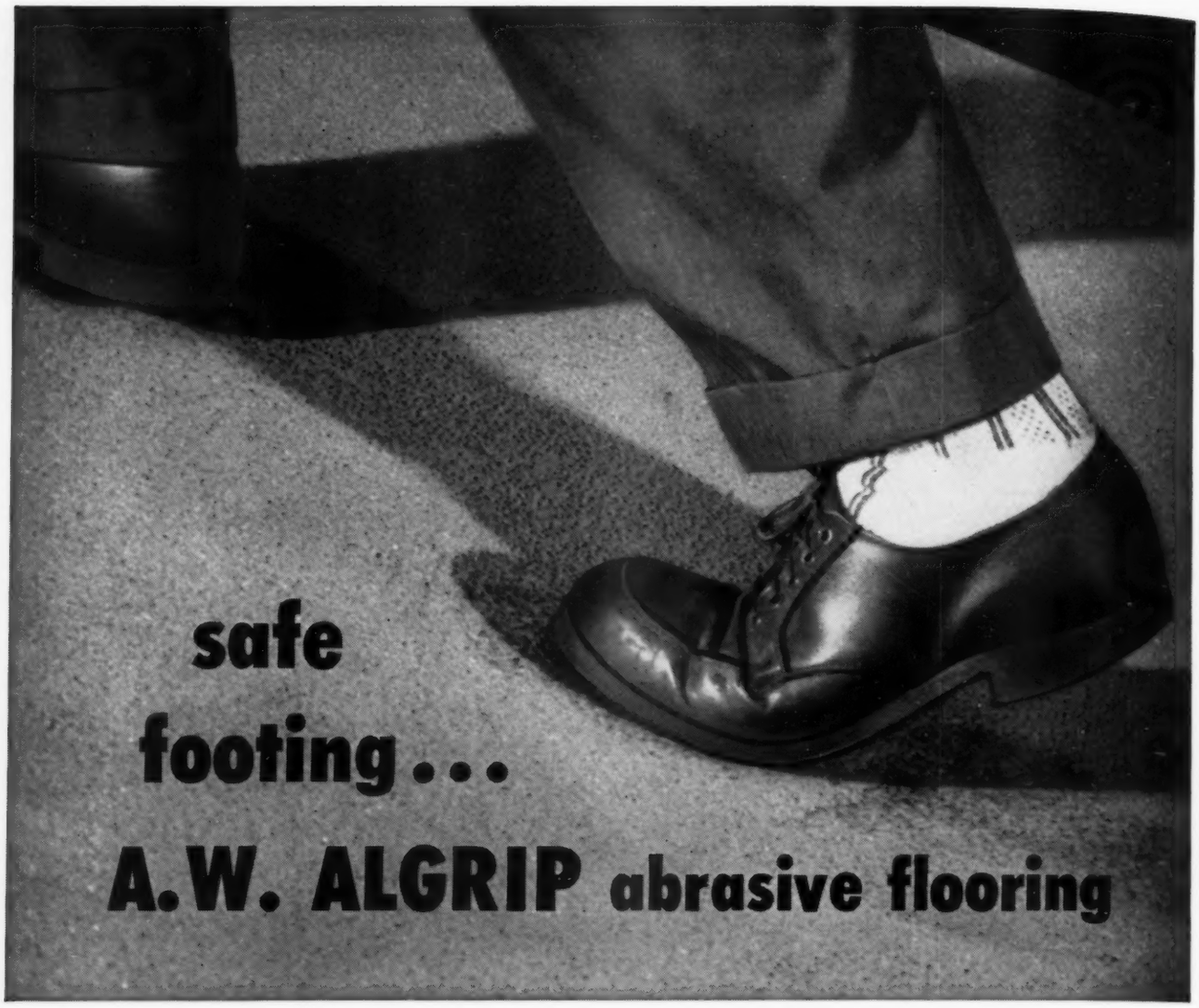


1.

Casting box tilts toward operator approximately 20° to permit more accurate, easier, and faster setting of mat into clips. Tilting operation controlled by push button.

IF IT'S Wood IT'S GOOD





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A. W. ALGRIP can be used as independent flooring . . . or as flooring overlay. Put your plant on a safe footing, with A. W. ALGRIP . . . Approved for Safety by Underwriters' Laboratories. Write for Bulletin AL-S5.

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For More Information Circle 4 on Reader Service Card

THE·EMPORIA·GAZETTE
Speed-Up Asked by Johnson
New Storm Sweeps Into Emporia Area
Several Patterns Appear at Opening of Mensol Center
Mail-Order Medicine Test Turns Up a Sick Rooster
THE AYER CUP

It's More Than Coincidence

9 out of 11 — 30th Annual Ayer Award Winners use IMPERIAL TYPE METALS

Our congratulations to the winners on recognition given to their newspapers for excellence in typography, make-up and printing. It's a source of great satisfaction that the majority of those so honored depend upon Imperial Metals and Imperial laboratory control of their working supplies. Is Imperial serving you?

THE AYER CUP

The Emporia (Kansas) Gazette

HONORABLE MENTIONS

More than 50,000 Circulation

The Atlanta (Georgia) Constitution

The Christian Science Monitor of Boston, Massachusetts

The Daily Oklahoman of Oklahoma City, Oklahoma

10,000 to 50,000 Circulation

The Derrick of Oil City, Pennsylvania

Rutland (Vermont) Herald

Under 10,000 Circulation

The Sumter (S. C.) Daily Item

The Sault Ste. Marie (Mich.) Evening News

Albion (Mich.) Evening Recorder

Honorable Mention for Tabloids

*York (Pa.) Gazette and Daily

*50% of their needs

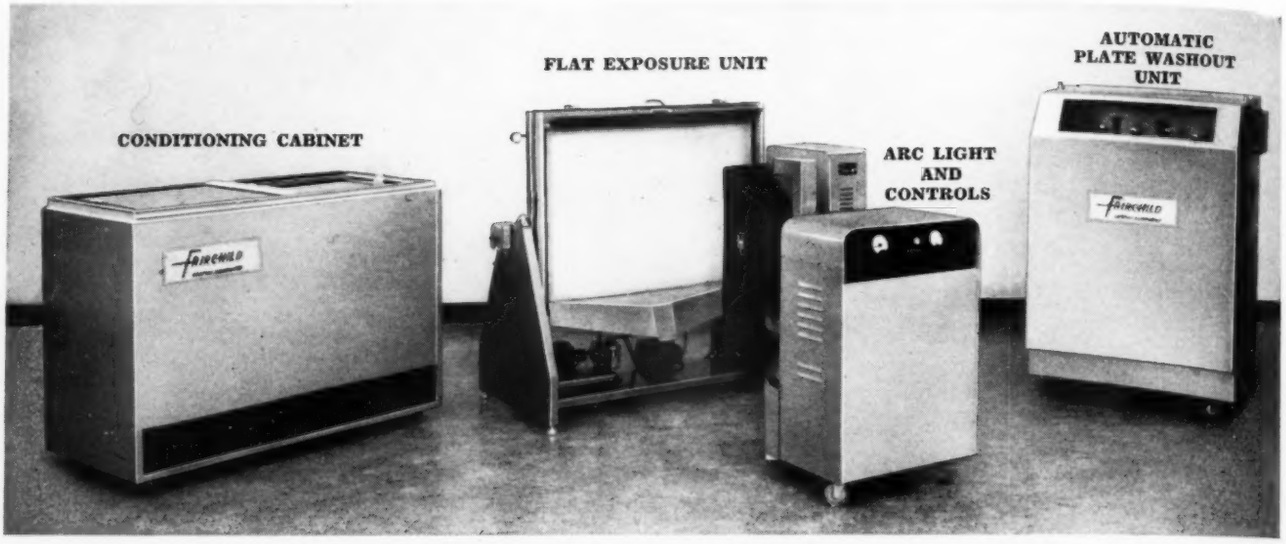
Imperial Type Metal Company

Chicago 50 • New York 7 • Philadelphia 34

Imperial

For More Information Circle 93 on Reader Service Card

THE FAIRCHILD



FAIRCHILD EQUIPMENT FOR PROCESSING DYCRIL* PLATES REFLECTS UNMATCHED EXPERIENCE GAINED SINCE 1955

Du Pont's recent decision to produce Dycril photopolymer printing plates on a commercial scale spotlights Fairchild's pioneering experience as the earliest and now the leading source of the processing equipment for these plates.

Following Du Pont's request in 1955, Fairchild designed and built the first automatic exposure and washout units. Since then, working closely with Du Pont, Fairchild has continued building units designed to keep step with the technological advances being made in Du Pont's Dycril plates.

Fairchild installations now in actual operation include Beck Engraving Co., Philadelphia; City Electrotype Co., Detroit; Container Corporation of America, Mannyunk Plant, Philadelphia; Crier Cut Service, Minneapolis; R. R. Donnelly, Chicago; Drury Printing Co., Dayton, Ohio; Du Pont Photoproducts Research Laboratory, Parlin, N. J.; Du Pont Printing Development Plant, Philadelphia; Du Pont Printing Plant, Philadelphia; W. F. Hall, Chicago; Industrial Engraving Co., Easton, Pa.; Litho Composition & Plate Co., Boston; and Typo Service, Philadelphia, among others.

In addition, pending installations include Acme Printing Co., Everett, Mass.; Foilcraft Printing Corp., Brooklyn, N. Y.; Plimpton Press, Norwood, Mass.; and Primary Color, Inc., New York City, N. Y.

Featuring automatic operation and push-button control, Fairchild equipment processes line, halftone, or combination plates with a single alkaline-solution bath. Plug-in components—unitized for easy servicing — are interchangeable between various models of the Fairchild equipment.

Du Pont's trademark for its photopolymer printing plates

PRINTING INDUSTRY NOW RANKS AS ONE OF TOP TEN USERS OF LEASED EQUIPMENT

More and more printers are taking advantage of the benefits of leasing. At the end of 1959, for example, there was approximately $20,000,000 worth of production equipment on lease to the printing and publishing industry, and indications are that this trend toward leasing will be an accelerating one. The reasons are important in today's highly competitive situation.

Most of all, profits are earned through the *use*, not the ownership of equipment. Leasing frees working capital that would ordinarily be tied up in purchase, thus permitting it to be used more profitably for expansion, investment, or other purposes. Leasing also reduces the risk of loss caused by rapid obsolescence of specialized equipment.

Another reason is service. In the case of its Scan-A-Graver® and Scan-A-Sizer®, Fairchild provides the services of 45 electronic engraving specialists from coast to coast to look after every leased machine. These Fairchild Customer Engineers make regular preventive maintenance calls and maintain the equipment "like new" for the life of the lease. All worn parts are replaced without cost.

Important, too, is a continuing program of product improvement, the results of which are incorporated in every leased machine to assure the user of up-to-date equipment. Moreover, equipment rental is a tax deductible item.

TYPE FONTS QUICKLY CHANGED WITH TTS® MULTIFACE PERFORATOR

Since book and job composition require many type faces, the Multiface Perforator is designed with removable matrix width (brass width) counting magazines that assure accurate line justification. They are easily changed in a few seconds. Magazines are provided to count any font of matrices from 5½ to 14 points.

For More Information Circle 58 on Reader Service Card

GRAPHIC

IDEAS AND INFORMATION FOR THE GRAPHIC ARTS INDUSTRY

SETS 24 GALLEYS OF MIXER COMPOSITION PER MACHINE PER SHIFT WITH TELETYPESETTER®

J. N. Anzel holds TTS tape produced by a single Perforator operator in one shift, and shows the amount of type it sets automatically.

J. N. Anzel, N. Y. trade compositor, gets 3 times more type output than with manual operation — automatically

Now many typesetters and printers — like hundreds of newspaper plants in the U. S. and abroad — are finding they can increase linecasting machine output up to 3 times with Teletypesetter.

For example, at J. N. Anzel, Inc., a New York compositor, TTS economies pay off handsomely. Anzel says his TTS equipment has required a minimum of service over many years.

Some of the jobs especially suited for TTS linecasting include court briefs, telephone and business directories, voter lists, text, trade and pocket books, rate and data guides, imprints, personalized checks, and many others.

TTS® performs typesetting magic

Teletypesetter permits automatic composition, hour after hour, at the maximum speed of the linecasting machine. Operation is easy. Any good touch typist can quickly learn to punch tape at high speed on the TTS Perforator — which records letters, characters and composing machine functions by means of perforations in a strong paper tape.

Automatic linecasting is accomplished by means of the TTS Operating Unit conveniently mounted beneath the linecasting machine keyboard. As the Operating Unit "reads" the tape, it automatically translates the perforations into functions normally carried out by manual operation. Because the system is mechanical, present personnel can service it without difficulty.

Teletypesetter is being used by typesetting companies, book and magazine publishers, specialty shops, other commercial printers. It not only gives them more type in less time at lower cost, but also provides savings in metal inventories and storage space.

FREE TTS MAINTENANCE COURSE EXPANDED TO 3 WEEKS

As part of its service to Teletypesetter customers that goes beyond equipment purchase, Fairchild has for years conducted a tuition-free school at its Plainview, L. I., plant. Now, to permit even more extensive training for customers' maintenance personnel, classes have been extended to 3 weeks. Subjects covered include theory of operation, adjustments of Perforator and Operating Unit, disassembly and reassembly of principal units, and recommended trouble-shooting procedures.

FAIRCHILD GRAPHIC EQUIPMENT

Division of Fairchild Camera and Instrument Corp.

District Offices: Eastchester, N.Y.; Atlanta, Ga.; Chicago, Ill.; Los Angeles, Calif.; Toronto, Ont.

Fairchild Graphic Equipment, Dept. FGE-12
Fairchild Drive, Plainview, Long Island, N. Y.

Please send me descriptive literature on:

- ☐ Dycril plate processing equipment
- ☐ Teletypesetter
- ☐ Fairchild leasing plan
- ☐ Multiface perforator

Name.....

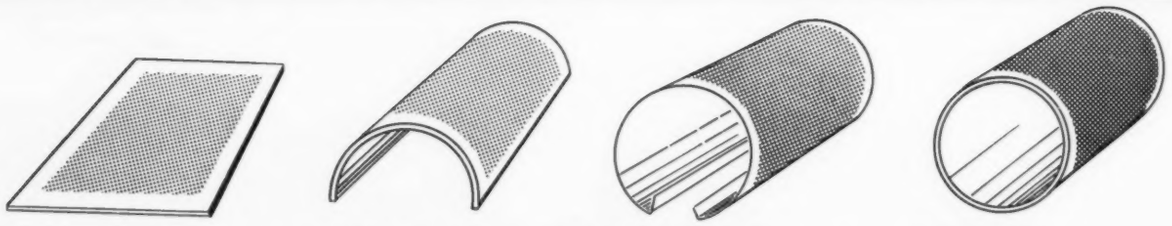
Company.....

Street.....

City.....Zone....State.....

For More Information Circle 171 on Reader Service Card

POWDERLESS ETCH ANY OF THESE PLATES IN THE MASTER M-32 with CURVED PLATE ATTACHMENT

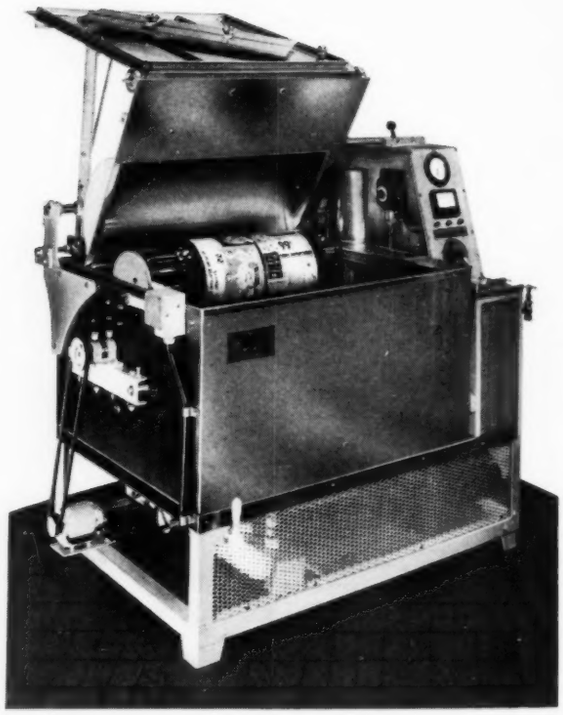


FLAT + CURVED + WRAP-AROUND + CYLINDER

ONLY PRECURVED PLATES ELIMINATE DISTORTION OF IMAGE AND ASSURE ABSOLUTE REGISTER

FEATURES:

- ★ Convert from Etching Curves to Flats in less than 2 minutes
- ★ Flats up to 20″ X 24″
- ★ Curved heavy-gauge segments up to 11″ in diameter
- ★ Thin-gauge "wrap-around" and "dry offset" plates
- ★ Cylinders up to 11″ in Diameter
- ★ Quality, Economy, and Versatility based on proven principles of Powderless Etching



The "CURVED PLATE ATTACHMENT KIT" can be installed on any of the Standard M-32 Powderless Etching Machines in the field.

Other equipment for producing curved engravings up to 20″ in diameter and 43″ wide can be chosen from a standard line of curving, whirling, exposing, developing, and etching machines by MASTER.

MASTER SALES & SERVICE CORP. WYNCOTE, PA.

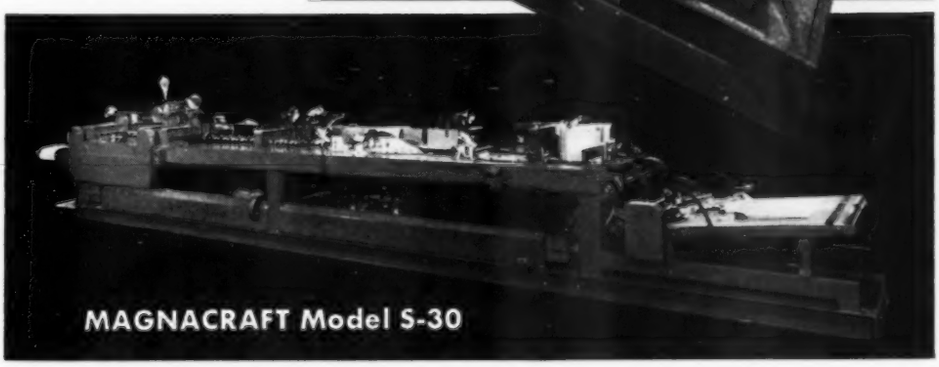
For More Information Circle 113 on Reader Service Card

FINEST EVER BUILT..

SPEEDS UP TO 16,000 PER HOUR!

Top production speed plus all-around versatility are outstanding features of this, the latest machine to come off the Magnacraft line . . . the Magnacraft Model S-30 . . . designed to accelerate, simplify and profitably streamline your mailing room operations. The new S-30 does the complete job faster and better . . . imprinting, labeling, wrapping the magazines uniformly, neatly, tightly, attractively . . . assuring delivery in excellent condition. The S-30 is simple to set up, easy to operate . . . anyone can do it.

- FOLD-WRAPS
- FLAT-WRAPS
- BAND-WRAPS
- IMPRINTS WRAPPER
- LABELS
- AUTOMATICALLY SORTS BY TOWNS



Ask us for details on the Magnacraft Model S-30. No obligation—write today.

Exclusive Selling Agents

T.W.&C.B. SHERIDAN CO.

SINCE 1835

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For More Information Circle 109 on Reader Service Card

Cut production costs?

YES

Newspapers large, newspapers small, are saving production time, saving production dollars . . . with one-piece

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PLUS IMPROVING PRINTING

Write today for a demonstration in your plant

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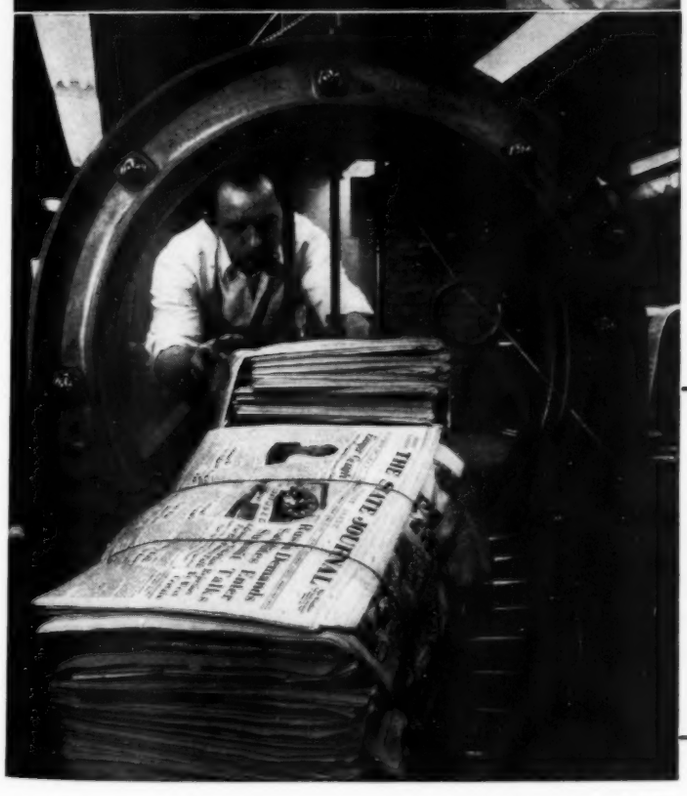
SERVING THE GRAPHIC ARTS INDUSTRY EXCLUSIVELY SINCE 1911

For More Information Circle 189 on Reader Service Card

Complete Strapping Service . . . Strapping · Tools · Technical Assistance



No lost time, no waste motion when you bundle with Model 12

USS Steel Strapping Machine Model 12 is completely automatic and so keeps newspaper bundling or magazine packaging moving right along. No matter what the size of the bundles . . . from 8″ by 2″ to 26″ x 20″ . . . they parade through the Model 12 at the steady pace of 24 a minute. And all are securely tied to the predetermined tension that the Model 12 constantly maintains, regardless of the bundle's size or weight. If compression of packages is desired for tighter wrapping and easier handling, a special device may be added to the machine for thoroughly satisfactory results.

The USS Model 12 Machine fits right into production line operation. Its speed and dependability soon produce economics in the circulation department. Model 12 utilizes USS High-Tensile Round Steel Strapping, 14 through 18½ gauge. It can be threaded in less than a minute. It is easy to operate. Maintenance is simple . . . a built-in, one-shot lubrication system.

A USS Steel Strapping Specialist is experienced in solving production line packaging problems. His experience is at your service. He will be glad to explain how you can benefit by installing the Model 12 Machine in your circulation or shipping department. *USS is a registered trademark*

U. S. Steel Supply Division of United States Steel

Steel Service Centers and Complete Steel Strapping Service Coast to Coast

U.S. Steel Supply Division, Dept. PP-60
U.S. Steel Corporation
208 South La Salle Street, Chicago 4, Illinois

Please send me a free copy of your Sweet's Insert Folder, containing information about the Model 12 Machine.

Please have Strapping Specialist call.

Name_____

Company_____

Address_____

City_____ **Zone**____ **State**_____

For More Information Circle 70 on Reader Service Card

NOW!

NEW MINIATURE NUMBERS CHECKS and DOCUMENTS

The New Wetter Miniature measures only 5/8" (45 points) wide! It's ideal for numbering those jobs where form space is at a premium... like the new checks and documents imprinted with electronically read codes that are coming into wider and wider use.

The rugged Wetter Miniature was specifically designed for *continuous* high volume production. Its one-piece solid steel frame and "T" slotted bottom plate were engineered to withstand the steady hammering of high press speeds... to give *continuing* accuracy and clean, sharp impressions of every number, every time... for years!

Write for your data sheet on the new Wetter Miniature.

1497

WETTER NUMBERING MACHINE CO.
ATLANTIC AVENUE & LOGAN STREET • BROOKLYN 8, N. Y.
ONLY UNION MADE NUMBERING MACHINE IN U. S. A.

For More Information Circle 188 on Reader Service Card

KEMP REMELT POTS COST LESS

—cast more 3 ways!

1 Gas or electric immersion heating

Kemp Immersion Remelt Pots (gas or electric) put the heat where it belongs—*inside* the metal. Recirculating heating tubes inside the pot distribute the temperature evenly . . . without heat loss. Result: faster heating, quicker melting . . . bigger savings in fuel and labor.

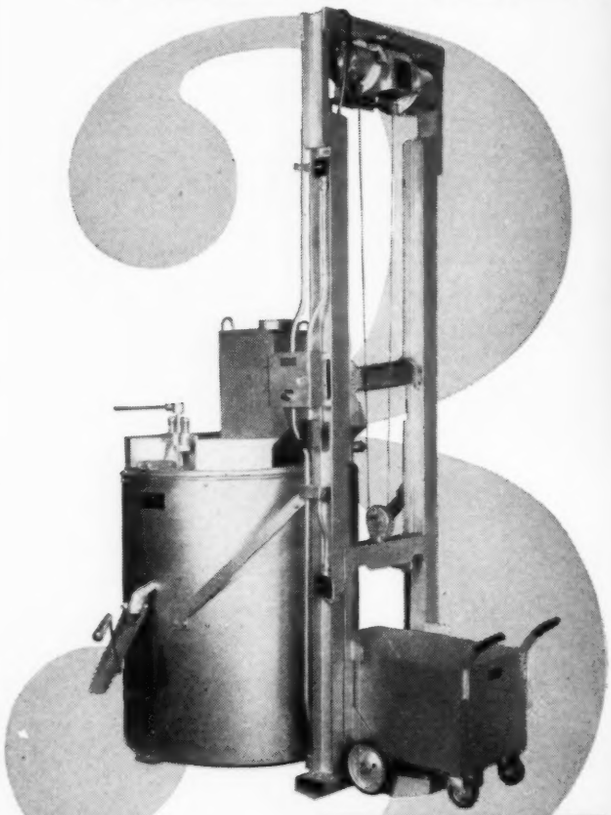
2 Easy and accurate temperature control

Kemp's easy, exact temperature control combined with rapid heat recovery provides continuous casting . . . even with great amounts of metal added. An inner exhaust *blankets* the metal, cuts dross formation. Result: higher casting rates, highest casting quality.

3 Good, safe working conditions

Kemp's modern, compact-design remelt pots have all heating units and control wiring fully enclosed. Result: obnoxious fumes and uncomfortably high room temperatures are eliminated... air conditioning is no problem. Write today for further information.

KEMP AUTOMATIC METAL LOADER with electric hoist eliminates manual loading . . . speeds work, cuts costs. (All carts have 700 lb. capacity.) Available with any Kemp Remelt Pot.

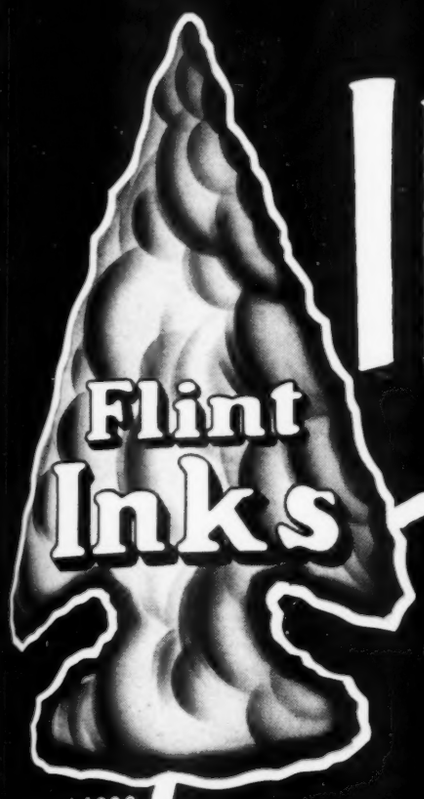


It always pays to come to **KEMP OF BALTIMORE**

THE C. M. KEMP MANUFACTURING COMPANY
405 E. Oliver Street, Baltimore 2, Maryland

For More Information Circle 198 on Reader Service Card

For More Information Circle 63 on Reader Service Card →



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NOW available to all East Coast Newspapers New Flint Factory at 195 Keen St., Paterson, N. J.

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Flint Ink Corporation

Gravure • Letterpress • Lithographic • Flexographic

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Ideal products help maintain pressroom efficiency and finished-product quality:
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DX Synthetic Newspaper Rollers
Flexocraft Rollers
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Waxing Machine Rollers
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Tanning Machine Rollers
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Rubber Blanket Rollers
Fabric-Covered Rollers
Other Ideal Products Guaranteed to Render Exceptional Service
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For More Information Circle 92 on Reader Service Card

For More Information Circle 182 on Reader Service Card→

Be Sure You See the Demonstration of the

Vandercook 13-28

SAFE ELECTRIC GALLEY PROOF PRESS

at the ANPA Mechanical Conference
June 19 to 22, 1960 in Miami Beach

This new, high speed press will produce up to 40 good quality proofs per minute with absolute safety to the operator. Large enough to take a 5-column full length galley and print a maximum form 12″ x 27″. Press can be operated in one of two ways, (1) for continuous running, or (2) to automatically stop press twice for each proof—once before a sheet is laid on the form, and again before the sheet is removed.

features . . .

Automatic Washup* — to save operator's time.

Vibrator* — a 3″ synthetic vibrator is available to provide greater ink capacity for quantity proofs of heavy forms.

Grippers* — foot operated sheet grippers to provide more accurate margins and better quality.

Continuous Running speeds production up to 40 proofs per minute—or **Automatic Cycling** to stop twice for each proof.

Impression Adjustment which any machinist can quickly make.

Large Ink Capacity — Inking system has four 2″ form rollers and a 6″ power driven oscillating ink drum.

Safety Stop — in advance of inking rollers and impression cylinder.

Casters* — to permit easy moving of press.

Proof Spindles* — mounted on paper shelf.

VANDERCOOK & SONS, INC.

General Offices, Research Laboratory, Demonstration Room and Factory
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AUTOMATIC WASHUP—a lever brings doctor blade into contact with the oscillating steel ink drum—thus removing ink and solvent.

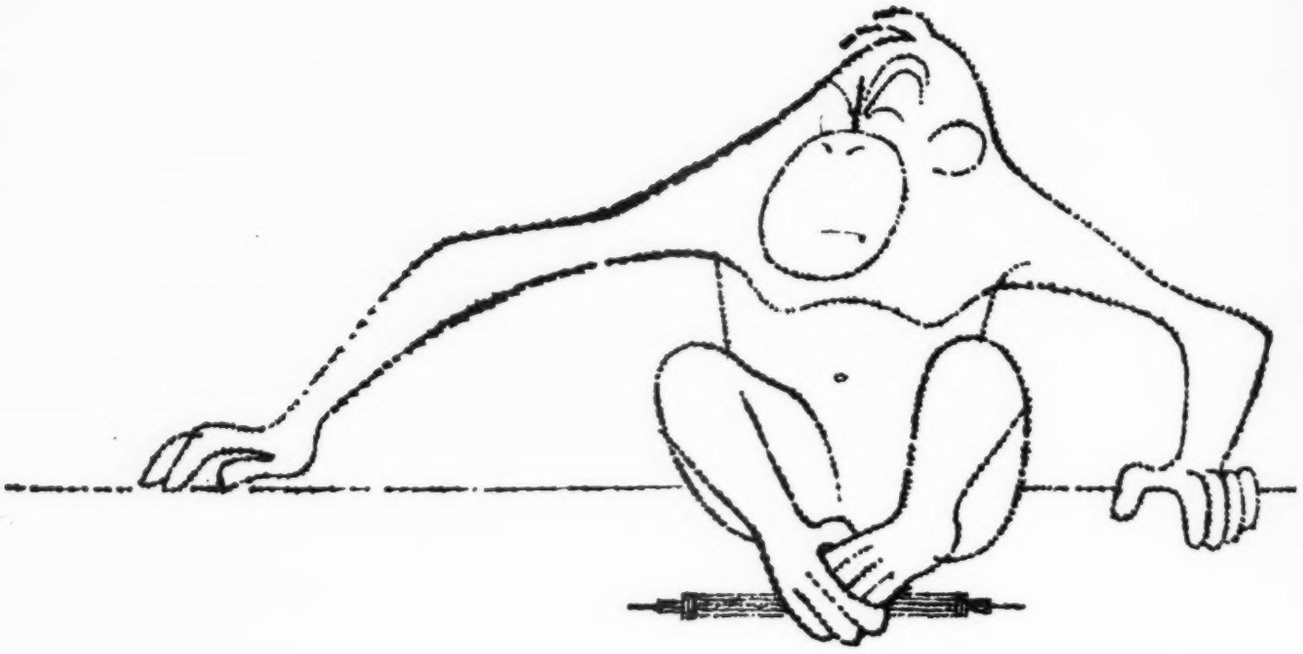
LARGE INK CAPACITY—inking system has four 2″ form rollers and a 6″ power driven oscillating ink drum. An additional 3″ vibrator is available as optional equipment.

FOOT OPERATED GRIPPERS—to insure more accurate margins and make it easier to obtain slur-free proofs. Available as optional equipment.

PRESSURE INK WELL—furnished as standard equipment. Conveniently mounted near the ink drum within easy reach of operator. View also shows hinged plastic cover over oscillating ink drum.

*ONAL EQUIPMENT

LESS MONKEYING WITH MAKE-READY!



MERCURY PRODUCTS

There are five big reasons why Mercury rollers and blankets save make-ready time . . . . Resistance to ink-drying on the press . . . . Freedom from swelling due to ink absorption . . . . Perfect affinity for ink . . . . Absolute uniformity in blanket thickness . . . . Controlled blanket stretch.

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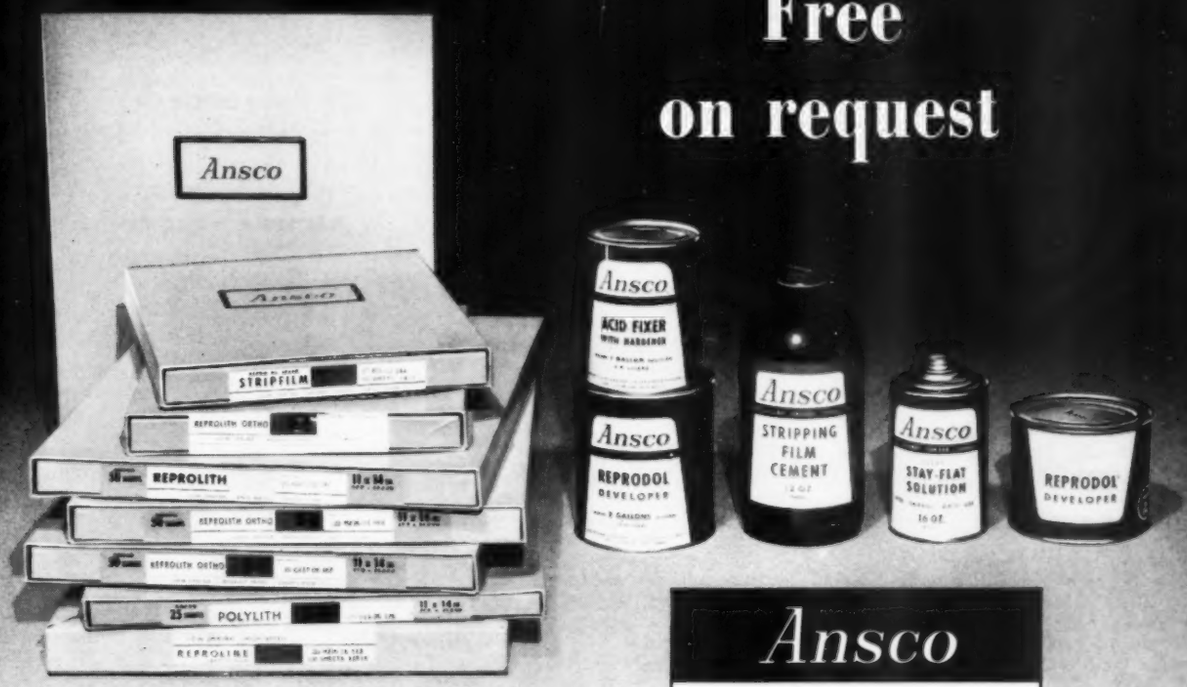
For More Information Circle 148 on Reader Service Card

NEW ANSCO GRAPHIC ARTS SAMPLES tailored to your needs

Free on request



Ansco

Graphic Arts Materials

Interested in improving your overall photographic quality? Here's your opportunity. This new Ansco Graphic Arts Sampler will be tailor-made to suit your needs in both black-and-white films and chemicals. So just fill in and mail the coupon. Soon you'll be testing the best . . . Ansco!

FREE! Illustrated booklet of case histories where graphic arts and photography have helped increase business efficiency. Wouldn't you like a copy for yourself? See your Ansco representative. Ansco, Binghamton, N. Y., A Division of General Aniline & Film Corporation.

Ansco, Dept. 1
Binghamton, New York

YES! I want to make a critical test of Ansco Graphic Arts Materials. Please arrange to supply me with your Graphic Arts samples.

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COMPANY_____

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G

For More Information Circle 15 on Reader Service Card

HELPFUL LITERATURE

FOLDERS · Sales Aids · Instruction Sheets · BULLETINS · Catalogs · BOOKLETS · Brochures

Circle Numbers on Reader Service Card in This Issue

Keep Yourself Informed. The folders and bulletins listed below all pertain to modern equipment, supplies, processes and/or methods. These have been prepared especially for plant managers, superintendents and foremen. Please circle the numbers on the Reader Service Card in this issue for the bulletins you wish to receive. Drop the self-addressed card in the mail. PRINTING PRODUCTION will forward your request.

Composing Room

SLUG SAW GLIDER

Informative literature has been published on the Glider portable slug saw by Hammond Machinery Builders, Inc. Circle No. 344 on Reader Service Card.

STAR SIX-POCKET MOLDS

Star molds and liners for six-pocket disks are described in literature prepared by Star Parts, Inc. The molds are said to be heat-treated and deep-frozen for stability during operation. Circle No. 342 on Reader Service Card.

MONARCH LINECASTING MACHINE

Intertype Company, Div. of Harris-Intertype Corp., has published a brochure on the keyboardless Monarch linecasting machine. One of the features of the machine is a variable speed drive which has an operating range of eight through 14 lines per min. Circle No. 314 on Reader Service Card.

VANDERCOOK UNDERFEED PROOF PRESS

A bulletin has been published describing the 319 underfeed proof press manufactured by Vandercook & Sons, Inc. The press has a bed size of 19 in. by 40 in. and can handle sheets to 18¾ in. by 28 in. Circle No. 312 on Reader Service Card.

Platemaking

STEREO SAW AND MAKEUP TRUCK

Information has been published on the stereo saw and makeup truck manufactured by Nolan Corporation. The makeup table is adjustable in height and is mounted on casters. Circle No. 320 on Reader Service Card.

FLIP-TOP PLATEMAKING

A bulletin describing Flip-Top platemaking equipment has been published by nuArc Co., Inc. Flip-Top platemakers are available in seven sizes from 13 in. by 8 in. to 50 in. by 62 in. Circle No. 322 on Reader Service Card.

FILM, PAPER, DRY PLATE CATALOG

A catalog describing its line of film, paper and dry plates for the Graphic Arts has been published by General Plate Makers Supply Co. Included are specifications and prices of products. Circle No. 313 on Reader Service Card.

BEVERIDGE AUTO-PACK MATS

Information on and samples of Auto-Pack packless mats are available from Beveridge Paper Co. Reportedly, the mats retain 0.030 to 0.035 space depth, from 0.040 form depth. Circle No. 318 on Reader Service Card.

VANDERCOOK TEST PRESS

Three models of Universal test presses are described in literature issued by Vandercook & Sons, Inc. The presses feature 15½ in. by 24 in., 18¾ in. by 28 in., and 32⅞ in. by 29½ in. sheet sizes. Circle No. 337 on Reader Service Card.

KENRO VERTICAL CAMERAS

The Kenro Vertical 18 and Vertical 24 cameras are described in literature issued by Kenro Graphics, Inc. According to the sponsor, the cameras may be equipped for making Ektalith, Gevacopy or xerographic exposures. Circle No. 315 on Reader Service Card.

FAIRCHILD ENGRAVINGS

Details on Scan-A-Graver engraving process and Scan-A-Plate engraving material are found in a booklet issued by Fairchild Graphic Equipment, Div. of Fairchild Camera and Instrument Corp. The booklet is entitled *Pictures Like These.* Circle No. 319 on Reader Service Card.

Wausau Paper Mills Co. has compiled a folder of its text printing paper. Circle No. 335 on Reader Service Card.

SUPER BISTA PREMADEREADY MATS

An information sheet featuring Super Bista premadeready mats has been issued by Lake Shore Electrotype Div. The mats are recommended for use with R.O.P. color. Circle No. 311 on Reader Service Card.

MAGPLATE MAGNESIUM PLATE SADDLES

Folders giving specifications and uses of Magplate magnesium plate saddles have been issued by Magplate Division, Brooks & Perkins, Inc. According to the sponsor, the close tolerance of the saddles minimizes makeready for plate level inaccuracies, reducing downtime. Circle No. 346 on Reader Service Card.

Pressroom

PATTERN FOR PRESSMAN'S HAT

The secret of how to fold a pressman's hat is revealed by a pattern offered by Dayco Div., Dayton Industrial Products Co. Instructions for making the hat are found on a specially printed newspaper sheet. The do-it-yourself hat may be made in 14 folds. Decorating the hat are reprints of the *Remember When* cartoons and of the oldtimer as he appears in the illustration. Circle No. 334 on Reader Card.

VALLEY EXPANSION CHUCKS

Information on expansion chucks has been issued by Valley Manufacturing Co. The chucks are available for either fibre or steel cores up to 19 in. diam. or for shafts of 1 in. to 3½ in. diam. in graduations of 1/16 in. Circle No. 343 on Reader Service Card.

SURVEY OF PRINTING ROLLERS

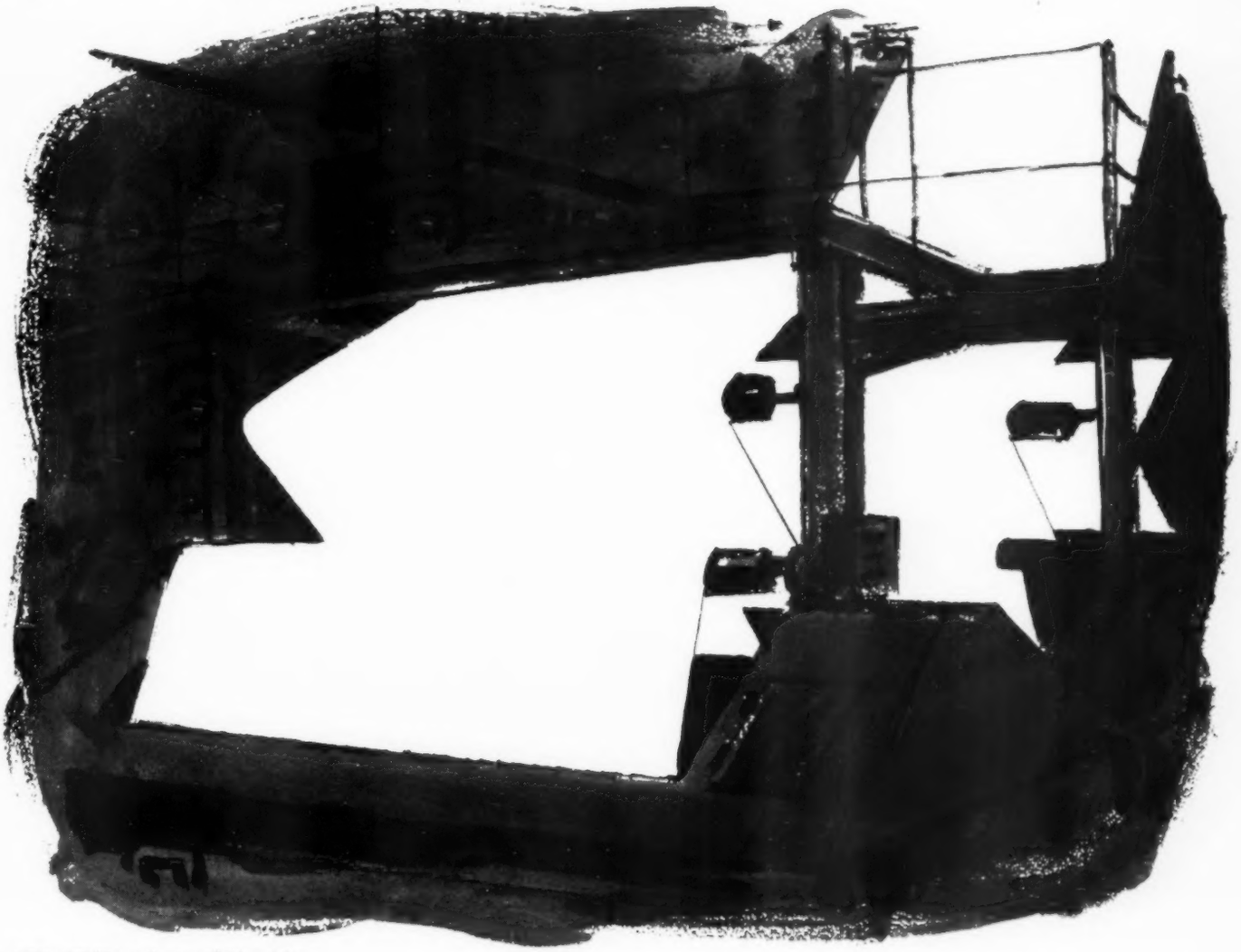
A general survey of printing rollers has been published by Sam'l Bingham's Son Mfg. Co. The manufacture, care and performance of standard rollers is discussed. A guide which recommends rollers for specific inks is also included. Circle No. 306 on Reader Service Card.

ANTHOLOGY OF OFFSET BLANKETS

An anthology covering blankets for use in offset lithography has been compiled by Reeves Brothers, Inc. The publication includes discussions on the selection, mounting, packing, breaking in and care of blankets. Opinions are presented on handling low spots and smashes, printing on acetate and foil, and other specific problems. Circle No. 307 on Reader Service Card.

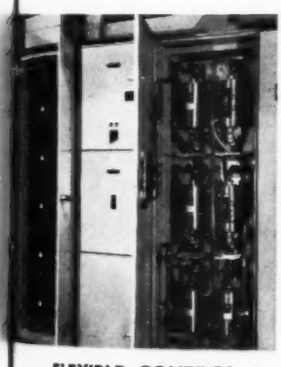
(*Continued on Page* 132)

Before you buy a drive system . . .



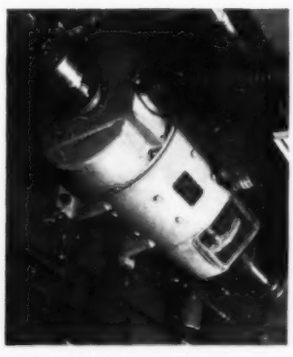
For a 20" by 24" lithograph copy of this painting suitable for framing, write to the address below.

Let's Talk Press Drive RELIABILITY



FLEXIBLE CONTROL includes convenient selector cubicle (left) and industry-proven ignitron rectifier equipment (right).

COMPACT G-E low-voltage draw-out switchgear provides highest degree of continuous power, needs little maintenance or attention.



G-E KINAMATIC® d-c unit-drive motors provide smooth, stepless acceleration from threading or inching to full operating speed.

Reliability of the General Electric d-c press drive is one of your first questions—and one of our favorite subjects. Here are some reliability facts:

MORE THAN 200 HIGH-SPEED PRESSES are powered by G-E engineered d-c drives—a years-ahead record of experience and customer satisfaction. What could be more convincing evidence of General Electric reliability than widespread acceptance?

During more than 14 years of experience with d-c press drives, General Electric has been continuously refining the drive system—incorporating new technology and eliminating components whenever possible. As a result, these drives are expertly engineered blends of the sturdiest heavy-duty components. And each refinement has been field-proven, dependably powering high-speed presses day after day.

WANT TO HEAR MORE about reliability? Your local General Electric Apparatus Sales Engineer will be glad to tell you in detail about the G-E press drive—its reliability, its performance, its flexibility. Call him today. And write for Bulletin GET-2504, Section 653-53, General Electric Company, Schenectady 5, New York.

Progress Is Our Most Important Product

GENERAL ELECTRIC

For More Information Circle 68 on Reader Service Card

"THE MOST PRODUCTION AND THE BEST PRINTING AND SERVICE PER DOLLAR EXPENDED"

THAT'S WHY THE
WOONSOCKET CALL
CHOSE
SCOTT

The Buell Building, home of the Woonsocket Call. Established, 1892. The Call is the only Rhode Island daily printing color. Editions run from 12 to 40 pages with a paid daily circulation over 25,000.

IN [illegible]TING NEW PRESS UNITS FOR THE CALL MR. [illegible]ELL W. HUDSON, EDITOR AND PUBLISHER SAYS:

"We purchased the SCOTT Press after months of careful investigating and study, including trips to see recent installations by three different manufacturers. It seemed to us that SCOTT would give us the most production and the best printing per dollar expended. We felt sure that we could depend on SCOTT for giving service and we are looking forward to the improvements we can make in The Woonsocket Call when the new press is in operation."

Four streamlined SCOTT black and white units, equipped with Color Cylinder and 3-2 Folder and 4 WOOD Reels, Tensions and Pasters will print over 25,000 papers daily at speeds up to 52,500 PPH.

SCOTT Presses are available in any number and arrangement of units, equipped with Color Cylinders or Couples. We invite inquiries.

SCOTT presses

WALTER SCOTT & CO.

DIVISION OF WOOD NEWSPAPER MACHINERY CORPORATION Plant: Plainfield, N.J.
EXECUTIVE & SALES OFFICE: 501 FIFTH AVENUE, NEW YORK 17, NEW YORK

BUILDERS OF PRESSROOM AND REELROOM MACHINERY AND EQUIPMENT SINCE 1875

For More Information Circle 156 on Reader Service Card

JUNE ISSUE, 1960

PRINTING PRODUCTION

Shaping Opinion in the Printing Industry

Introduction of this page marks another milestone for PRINTING PRODUCTION and for you, the magazine readers. Contrary to past policy, this magazine is now publishing the opinions of its editors on issues of vital interest in the printing industry.

Inclusion of this page is intended to provide another step in improvement of your reading source for reliable information on Graphic Arts production subjects. Editorially, we are doing more today for our 17,000 readers than ever before. Some added features are Overseas Report, Research Activities in the Printing Industry, the Idea File, and Graphic Views.

We hope this editorial page will find its place in order of usefulness to you in running your company's business. We will not expect all to agree with our opinions expressed here, but in every case, the opinions will be based upon our most objective thinking and will be written with the best interests of the industry in mind.

Trade Associations Must Support Elected Officers

Should businessmen have to spend out-of-pocket or company money to carry out their duties to an elective association office? This deplorable situation was brought into the open last month in remarks by a spokesman for the National Assn. of Litho Clubs (see page 90).

Many former and present officers of national, regional and local organizations in the printing industry have had to do this during their tenure in office. In most every case it is done without the knowledge and appreciation of the membership at large. True, in many of these cases, the officer's company defrays such expenses, but the legitimacy must still be questioned.

Members of these growing trade associations must face up to the fact that it takes bigger budgets today to meet the needs of their planned programs. NALC members, despite considerable opposition, have done just this by passing a dues increase on the national level. There is a need now, if this condition prevails in other circles, to correct inadequate allowances for association work conducted for the benefit of all members.

Production problems are solved by the group method in all divisions of the ANPA-RI. Members of the ANPA-RI Mechanical and Service Div. staff are pictured discussing a newspaper's particular problem. Left to right are: Richard E. Lewis, director; Fred P. Brickner, assistant director; Frank Burrell and Monroe Campbell, assistants to the director.

Solving Newspaper Problems is OUR BUSINESS

By **RICHARD E. LEWIS**, *Director of ANPA-RI Mechanical and Service Division, New York*

A PHOTOENGRAVING process which eliminates film and its processing. . .

A water base ink for superior printing on newsprint. . .

Packless stereotype mats. . .

Rapid-etch for photoengraving . . . this and the above processes and products were developed or are under development as part of the program of the Research Institute of American Newspaper Publishers Assn.

Similar futuristic production methods as well as current problems are the concern of and cause for the Research Institute which was organized approximately one year ago.

At its organization one year ago, James Copley, ANPA-RI president, hailed the Institute as a successor to the "prayers to Great Gutenberg's Ghost" upon which the industry had relied for too many years.

The specific aims of the Institute have been listed previously as (1) reducing costs materially, (2) improving printed quality of newspapers, and (3) reducing the time period from editor to reader.

Broadly defined, the organization is a clearing house for production problems of the 847 member newspapers of the ANPA. These newspapers account for 93% of the total daily circulation of the United States and Canada. An average of 1400 inquiries are received yearly.

For efficiency, the Institute is organized into four divisions: Training, Production Engineering, Mechanical and Service, and the Research Center. All divisions are located at ANPA headquarters in New York with the exception of the Research Center in Easton, Pa.

Administrative control of the four divisions is the responsibility of Charles H. Tingley, managing director. Tingley is a graduate of the University of Rhode Island and has been associated with the management consulting firm of Booz, Allen and Hamilton.

Division heads are: William Braasch, Training; Robert B. Wentworth, Production Engineering; Roy W. Prince, Research Center, and Richard E. Lewis, Mechanical and Service.

At Easton are located the laboratories, the testing equipment and the engineering and technical per-

sonnel of the Research Center. For thoroughness, it is the policy of the Institute to have laboratory personnel concentrate on a limited number of major projects at one time. Work ranges from practical studies of today's problems to research on tomorrow's dream processes.

Prince, Research Center head, possesses a varied background ranging from pure scientific research in the fields of cosmic rays and cancer to practical development engineering on guided bombs and missiles.

Research is Cooperative

Much of the research work is accomplished in cooperation with manufacturers and suppliers for the printing industry. This cooperative effort combines the research budgets and facilities of the industry with the practical know-how and information of the Research Center staff.

It is the aim of the industry and Center's combined effort to move new equipment out of the laboratory, onto the production line and into the plant in the shortest possible time.

Currently, the Center is engaged in cooperative research with Radio Corp. of America on the Electrofax system for use in photoengraving. This system is purported to eliminate film and its time consuming processing from the photoengraving process. In terms of money saving, the Electrofax system would eventually save a newspaper $3 on every flat processed. A plate shot directly in the camera without a negative has already been successfully etched by this means in the laboratory. Now the process is being tested under production conditions in a member newspaper plant.

Another current major project is a mailroom counter which it is hoped will eventually give a 100% accurate count of newspapers on a conveyor line. Laboratory models have been produced and are undergoing field tests.

Well-known accomplishments of the cooperative research program include work with Kimberly-Clark Corp. on the development of packless stereotype mats and with Dow Chemical Co. on the rapid-etch method of processing photoengravings.

The versatility of the Center's staff was demonstrated at a recent ANPA publishers' meeting when laboratory technicians set type, made engravings, molded packless mats and printed a newspaper. One page of the newspaper was printed in a water base news ink which is another current project of the Center.

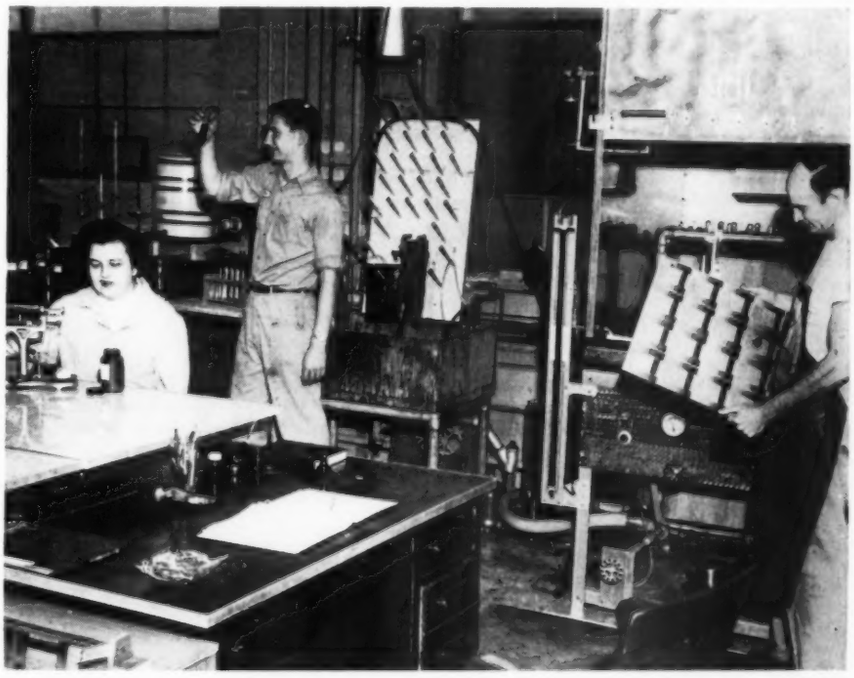
Research for the improvement of newspaper production methods is the daily task at the Research Center. Shown performing an inclined plane news ink test is technician George Cashan.

Trouble-shooting Division

Most inquiries received by the Institute are referred to the Mechanical and Service Division. These inquiries contain the urgent problems of some production managers and receive prompt attention. The nature of the problems ranges from equipment and maintenance, operations and procedures to design and layout of new plants.

Solutions are sometimes found quickly in the Division's vast files which contain information on all types of production problems solved by plants throughout the country. If the files yield no favorable result, a phone call, survey or questionnaire

(*Continued on Page* 119)



An improvement in the photoengraving process is sought through science by skilled technicians at the Easton laboratories. Left to right are: Doris Mangel, George Cashan and Roland Wertz.

ANPA-RI mechanical committee

Members and staff representatives of the ANPA-RI Mechanical Committee. Seated, left to right, are: Charles H. Tingley; Richard E. Lewis; George F. Marshall; W. R. Coddington, and A. E. Rosene. Standing; Monroe Campbell, Jr.; George P. Kunz; Harry Sloan; Harold A. Hoots; Fred P. Brickner; F. J. Burrell; George W. Helm, Jr.; Joseph L. Woods; James Harrison; Julian J. Eberle; John N. Barron, and Charles N. DeRose.

CHARLES H. TINGLEY, managing director, ANPA Research Institute, Inc., has had an extensive background in managing activities. He graduated in 1942 with a B.S. degree from the University of Rhode Island.

RICHARD E. LEWIS, Dir., Mechanical and Service Div., ANPA Research Institute, has been associated with the Institute for 11 years. He graduated with an engineering degree from Ohio State University.

GEORGE F. MARSHALL, general production manager, Gannett Publishing Co., Inc., Portland, Me., is chairman of the ANPA mechanical committee. He has been associated with the Gannett chain for 25 years.

W. R. CODDINGTON, mechanical superintendent, Detroit *Free Press*, is vice chairman of the ANPA mechanical committee. He was formerly employed as mechanical superintendent of the Chicago *Daily News*.

A. E. ROSENE, production manager, St. Paul (Minn.) *Dispatch and Pioneer Press*, has been with the St. Paul organization since 1939. He was one of the organizers of the Northwest Mechanical Conference.

MONROE CAMPBELL, JR., Asst. to Dir., Mechanical and Service Div., ANPA Research Institute, Inc., translates technical writing into terms understandable to laymen. He is a former public relations director.

GEORGE P. KUNZ, production manager, South Bend (Ind.) *Tribune*, has helped pioneer the application of packless stereotype mats and powderless etching of photoengravings on his newspaper.

HARRY J. SLOAN, production manager, New York *Mirror*, formerly was color production manager of a rotogravure supplement. He was also a member of the ANPA committee on rotogravure printing.

HAROLD HOOTS, director of production, Lindsay-Schaub Newspapers, Decatur, Ill., graduated from Millikin University. He has been associated with the chain of four newspapers for 26 years.

FRED P. BRICKNER, Asst. Dir., Mechanical and Service Div., ANPA Research Institute, Inc., has been associated with ANPA for 15 years. Brickner has attended New York University and Columbia.

F. J. BURRELL, Asst. to Dir., Mechanical and Service Div., ANPA Research Institute, Inc., is presently attending evening school at New York University and will graduate with his B.S. degree in 1961.

GEORGE W. HELM, JR., Vice Pres. and Asst. Treas., Westchester County Publishers, Inc., White Plains, N. Y., was a president of the N. Y. State Publishers Assn. He attended the University of Cincinnati.

tee contributes to progress of newspaper industry

The newspaper industry of the United States begins the 1960s in the best possible production position it has ever enjoyed. Witness the multi-million dollar plants constructed in the mid and late '50s; the major additions of new machinery; the overhaul of processes and techniques—all contributing to advancement of the end product. In the forefront of this renaissance has been the revitalized Research Institute of American Newspaper Publishers Assn. which has as its governing body a committee composed of men devoted to improvement of the daily newspaper. These men (shown on these pages) come from both management and production ranks in the industry. Their leadership, as representatives of all ANPA newspapers, will be evident at the Mechanical Conference being held this month (June 20-22) at Hotel Americana, Miami, Fla.

J. S. COPLEY

D. K. GOTTLIEB

J. H. MINTUN

D. V. WEBER

JOSEPH L. WOODS, production manager, Hartford (Conn.) *Times*, has been a director of the New England Mechanical Conference for 14 years. Woods has worked for the *Times* for the past 15 years.

JAMES HARRISON, production manager, Toronto (Ont.) *Globe and Mail*, received his education in Scotland where he trained for electrical engineering. He has been associated with the Toronto paper for 26 years.

JULIAN J. EBERLE, production manager, Miami *News*, was responsible for introducing ROP color process at the *News*. He was also active in pioneering other mechanical apparatus in the newspaper industry.

JOHN N. BARRON, mechanical superintendent, La Salle (Ill.) *Daily News-Tribune*, has been associated with the *Tribune* for 11 years. He was previously connected with newspapers in Minnesota and Wisconsin.

CHARLES N. DeROSE, vice president and managing editor, Northampton (Mass.) *Daily Hampshire Gazette*, has been associated with his newspaper for 20 years. He graduated from the University of Vermont.

JAMES S. COPLEY, Pres. and Gen. Mgr., San Diego (Calif.) *Union* and *Tribune*, is also chairman of the corporation, Copley Press, Inc., La Jolla, Calif. He is president of ANPA Research Institute.

DAVID K. GOTTLIEB, Business Mgr. and Treas., Davenport Newspapers, Davenport, Ia., graduated from Ohio State University. Active in affairs of the Iowa Daily Press Assn. and Inland Daily Press Assn.

J. HAROLD MINTUN, assistant business manager, Pittsburgh *Press*, was production manager for the Pittsburgh *Post-Gazette*. He also worked as production manager for Lindsay-Schaub Newspapers, Decatur, Ill.

DONALD V. WEBER, production manager, Houston *Chronicle*, graduated from Purdue University with a B.S. degree in mechanical engineering. He has been associated with the Houston *Chronicle* for 11 years.

ANPA-RI Mechanical Committee members not shown on these pages are: E. L. Burgess, La Crosse (Wis.) *Tribune*; Donald Newhouse, Portland (Ore.) *Oregonian*, and Hy Shannon, Chicago *Sun-Times*.

General view of section of gigantic TPG Graphic Arts exposition held last month in Paris. Displays covered wide variety of printing equipment.

U. S. PRINTERS WITNESS FRENCH EXPOSITION OF

European G. A. Machinery

By WILLIAM CRANE, *European Correspondent*, PRINTING PRODUCTION Magazine

THE name 6e Salon International des Techniques Papetieres et Graphiques may be a tongue-twister, but the initials TPG will suffice to identify the most recent international exhibition of printing machinery. Held in Paris, France, from April 29 to May 8, the TPG was conducted very much along the lines of the previous European Graphic Arts equipment shows. This can be interpreted to mean that the machinery set before the printer-visitor was all-encompassing.

Some 150 Americans attended through reservations made by the National Assn. of Photo-Lithographers. (See PRINTING PRODUCTION, April 1960, page 48.) How many other U. S. printers came as general tourists would be difficult to estimate. With the Educational Graphic Arts Exposition held at the Coliseum in New York only a few months back, one is tempted to ask: Why?

The reason is in the sheer size of European printing equipment expositions. In one of these expositions it is possible to see and compare the widest possible range of competitive equipment, and thereby to make reasonably good decisions regarding purchase. With equipment costs and installation expenses constantly rising, however, the price of equipment must rise too and we are probably coming to a gradual end of the big printing machinery shows. The next international printing equipment show will not be held until May of 1962.

Some of the large sheet and web-fed presses which normally take weeks to install were missing at Paris—with the possible exception of Marinoni, Cerutti, Holweg, and a few others. Yet with the financial handwriting on the wall, the Salon TPG was unquestionably a fascinating and invigorating experience for the average visiting printer.

The very size of the exposition, occupying some 600,000 sq. ft., makes it difficult to review without assembling in effect a general catalog of Graphic Arts equipment. Some informal notes, however, may give one the general highlights and a quick review of current equipment production.

Hand-set Correction Machine

European emphasis upon the small one-man shop with the craftsman's traditions resulted in displays of a wide variety of composing room racks, desks, chases, cases and tools. Plastic type cases were fairly common. The use of vacuum equipment to clean type cases invariably drew a crowd.

Setzmaschinen Typograph might have struck the American visitor as something Ottmar Mergenthaler had tried and dropped. Individual matrices hang on wires and are assembled for the casting of a line. Quite slow, but an interesting curiosity for the American printer.

Typomeca, on the other hand, attracted attention. It was reported that this completely new machine will be introduced into the United States in a year or two. Operation of the machine is somewhat like the Ludlow. Linotype matrices are used to set anything from single line corrections when you don't want to change a magazine on a line-casting machine, up to and including headlines in large point sizes.

Standard linecomposing matrices are kept in foundry type cases. The matrix lines are set manually on a galley-like frame or stick. They are slid into position for centering or quadding. From this point operation is automatic. The slug slides into a galley as on a Linotype. The matrices are returned by the elevator to the top of the machine for manual distribution.

Phototypesetting on Film

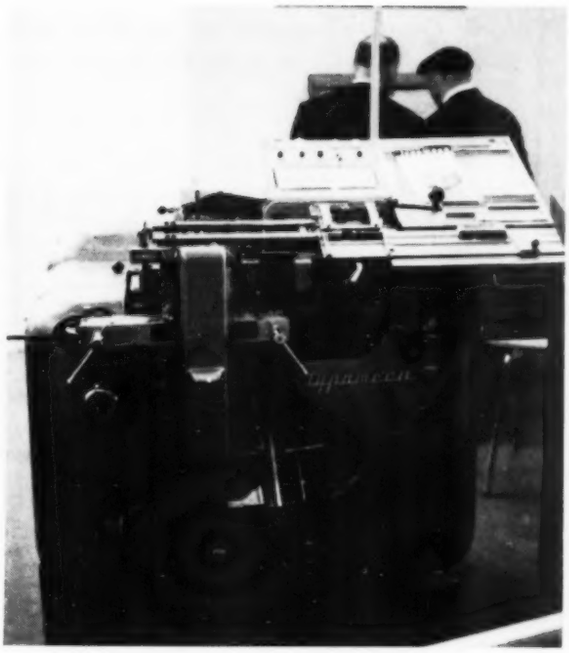
The Photon photocomposition system, as many may know, was originally a French conception and it was exhibited in its homeland under the name of Lumitype. The model

shown was fundamentally the same as the United States development, but carries an interesting addition. This is an automatic system whereby an original tape and a tape of corrections can be simultaneously run so that the corrections are inserted to form a new and corrected tape.

A surprising new machine is the Letterphot. It is operated somewhat like a photoenlarger on a table top to produce any size letters from a single disk. The headlines can be produced on film or paper, and can be spaced, interlaced, or screened at will. All characters composed are first projected on what is called a memory foil so that the word or line as a whole can always be seen before exposure.

Several Optype models were also shown. Using ordinary typewritten copy, the Optype justifies lines by photographing them separately and stretching the line photographically to the desired even right-hand margin. The letter distortion is minute and hardly noticeable. The same copy can also be reduced in size, or photographed in italics.

The Linofilm Composer, the fourth unit in the Linofilm keyboard - camera - corrector - composer system, attracted much attention. The unit is best known in the U. S. for its handling of the output from the Linofilm photographic unit. At the Salon TPG, however, the Composer demonstrated its ability to use negatives produced from other filmsetting systems, repro proofs of Linotype slugs, and other mechanically or manually set, drawn, typed, or otherwise reproduced letters. The unit is made by Mergenthaler Linotype Co.



Hand operated Typomeca machine shown at recent TPG exposition in Paris. Standard Linotype matrices are used to make proof corrections and for casting occasional display lines up to and including 36 pt.

Step and Repeat Machines

A surprising number of photocomposing step and repeat machines were demonstrated, the most advanced probably being that of Bouzard-Calmes. This machine is of the European style horizontal construction which is seldom seen in the U. S.

The machine is entirely automatic and controlled by a punched card system. When the operator has drawn up imposition he punches the card where perforations indicate all the data for spacing in both directions, number and length of exposure, the pressure settings, and number of repeats. The card is then inserted into a control box adjacent to the machine, which then is operated automatically. It can also be operated manually. Both plate and film can be handled in the machine.

Also new is the Lithoprintex Senior, a British-made vertical step and repeat machine in which speed, simplicity and accuracy are made possible by special notch bar fittings for the film holder motion.

With the exception of the now well known Miehle and the Harris wrap-around plate presses first introduced last year at the Coliseum there were no new developments.

The massive East German Victoria 37 in. by 50 in. letterpress is equipped with an enormous new feeder and a system for doing premakeready on the cylinders outside the press. The cylinders are then inserted in the machine. Makeready time on the press itself is said to be reduced considerably. The press, despite its claim of 12,000 i.p.h. and quick get-away, was ignored by the majority of visitors. This probably was due to mechanical rather than political reasons. Bindery equipment, also made in East Germany, was quite popular in Paris.

Also shown were the familiar Heidelbergs, the Albert Automats, Johannisberg, Tirfing, Viking, Frontex, Miehle Vertical, Holmes Vertical, Koenig & Bauer, and a wide variety of French machines hitherto

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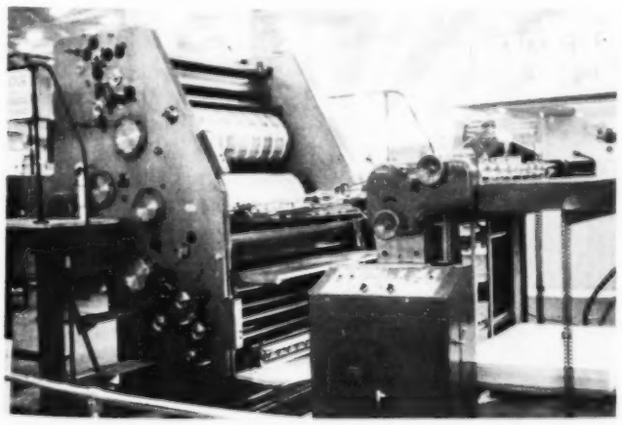


The French Elby rotary perfecting letterpress, made by Edouard Lambert, utilizes rubber or thin plastic plates.

At the Paris TPG exposition was shown this two color offset press. Machine consists of two Chief 24s joined together.

● *Quality control in printing plant production and in materials used reduces waste, assures profit*

R&E COUNCIL SPEAKERS PUSH

Statistical Qu

THE annual meeting of the Research and Engineering Council of the Graphic Arts Industry, held last month at the Dayton Biltmore hotel in Dayton, O., was devoted to analytical discussions about quality control methods employed in the printing and supplies industries.

The Dayton conference was attended by over 200 management, production and equipment and supply representatives. The 1961 conference is scheduled to be held at Hotel Fort Des Moines, Des Moines, Ia., on May 22-24.

Regarding the 100% inspection procedures for the control of quality as against the statistical quality control method, the speakers were in agreement that the latter type is preferable.

In opening the first session, Chairman Paul Lyle stated costs are considerable to maintain quality in printing production. But it costs no more as contrasted with uncontrolled work spoilage. To illustrate, he mentioned there is no difference in the cost of feeding and caring for two cows, one of which gives the normal amount of milk. Quality in printing can be secured through a proper quality control system, in association with maximum production from the human element and thorough machinery maintenance.

The majority of the problems arising in the plant with respect to materials used, the speaker said, cannot be laid on the door step of the materials supplier. Lyle was not referring to the capital goods maker. It is important, however, to understand what the materials supplier is doing to maintain quality in his products. At the same time, the suppliers can tell us what we can do to properly handle their products, he said.

Statistical Method Is Best

During the conference sessions it was developed that statistical quality control is the best method for predicting results in order to deliver an acceptable finished product to the customer. It is not a simple thing, however, to maintain a quality control program in the printing plant. It is essential that the method used should be as simple as possible to assure desired results.

A number of the speakers stressed the point that quality control should be sponsored by management in all cases. All reports should be made to management. They seemed to agree that 100% outcome can not be obtained no matter which system is used because there is no such thing as perfection.

In statistical quality control a fixed amount of defectiveness is sought and the incidence or frequency of imperfections in materials and processing is established through specially prepared experience charts.

Percentages vary according to the kind of work and the acceptable quality.

Explains Statistical Method

O. H. Somers, Raytheon Manufacturing Co., divided his address into two parts. The first was *Sampling Versus* 100% *Inspection*; the second part of his address was *Educating Your Personnel in Quality Control.*

In general, the speaker felt that 100% inspection is not the best control procedure. The system does not permit catching all the faults in materials and/or workmanship up to the extent of 15%. To illustrate the point, Somers said that in a Chicago plant hidden paper costs were revealed in which reams of paper varied from 480 to 514 sheets each. The total error over a period of time varied from 1% over to 2% low from ream to ream.

Somers demonstrated the principles of statistical quality control by showing eight frequencies of head and tail combinations which can occur when three coins are tossed on a table top a given number of times. He also illustrated that 36 different combinations can occur with a pair of dice thrown a given number of times.

A further method of illustrating the frequency of occurrence principle was demonstrated with a paddle containing 100 circular depressions, 2000 white marbles and various limited quantities of red mar-

New officers of the Research and Engineering Council. Left to right: J. Russell Parrish, Meredith Publishing Co., Des Moines, secretary; Paul Lyle, Western Printing & Litho Co., Racine, Wis., first vice president; Clifford L. Jewett, Minnesota Mining & Mfg. Co., St. Paul, president; C. M. (Larry) Flint, Chas. T. Main, Inc., Boston, second vice president, and Harold S. Hutchison, Mack Printing Co., Easton, Pa., treasurer.

By MacD. SINCLAIR
Consulting Editor

Quality Control

Clifford L. Jewett (left), president-elect, presents plaque of appreciation on behalf of Research & Engineering Council to retiring-president Alan S. Holliday at Council's annual conference in Dayton, O.

bles mixed with the white marbles. By moving the marbles with a hand over the paddle the incidence of occurrence of the red marbles can be predicted with accuracy.

With respect to variations from standard in materials one can predict the long term probability through the use of the scientific sampling plan. For example, the incidence of press web breaks can vary from supplier to supplier, as well as the paper furnished by a single supplier from time to time.

Somers said that in a bindery in the Midwest 10 stitchers were used in binding a certain job. Management found that production from the stitchers was much lower than it should be. The waste problem was startling. What to do about it? A meeting of the foremen was called. A statistical production chart showing average hourly output for each of the 10 units was shown and discussed. It was found that a big share of the low production was caused by variation in machine maintenance. Each machine was taken out for repair. Over a three or four month period production was increased from 4700 to over 6000 books per hr. Shipping schedules for the books were delivered on time. Another benefit derived from educating personnel and keeping equipment in proper repair was that the company utilized the increased capacity for added business.

The speaker mentioned another benefit in the use of statistical quality control in a bindery. A 70 lb. cover stock of variable quality was being obtained from a number of different suppliers. The quality control department made a study of the variables on each shift in the bindery and determined the differences in costs. The sources of supply for the cover stock were reduced to four and these four suppliers were told of the company's problem. For over a year now the desired quality of the cover stock has been provided at no increase in cost.

Somers asserted that average effectiveness for 100% inspection method is from 85% to 90%. One of the weaknesses of this type of inspection is boredom and distraction. In one plant employing a one-man and four-girl shift, the girls were permitted to work a maximum of 2 hrs. after which other girls replaced them. The girls finishing their 2 hr. duty then were given other work in the bindery.

In summarizing the introduction and use of quality control into a plant, department cost sheets should be provided the quality control department. Operating sheets should be examined monthly. After this, it can be decided where the most urgent objectives (those that cost the most money) will apply.

It was Somers' opinion that it is

(*Continued on Page* 84)

Among those attending Dayton R&EC meeting, left to right, were: 1—Sigfried Higgins, Williamson & Co.; Arnold E. Rogers, Rogers Engraving Co., Inc., New York, and Robert E. Rossell, managing director, Research & Engineering Council. 2—Warren L. Rhodes, Rochester Institute of Technology; James C. Fitter, Experimental Laboratories Div., and F. E. Church, Time, Incorporated. 3—George L. Morrison, Ludlow Typograph Co.; Irving Rigby, Conde Nast Press, Greenwich, Conn.

Basis for good reproduction consists of cool color scale, concentrated inks, and blue-red-yellow color printing sequence

ALTHOUGH America probably still holds a decided edge in the use of newspaper color, American printers should be interested in learning about the current work being done in this field in West Germany.

German development of ROP color printing techniques has progressed rapidly in the last two years. The daily newspaper, *Hamburger Abendblatt*, printed in the sprawling plant of Axel Springer & Sohn, has been among the pioneers in the development of this color process work. Our procedures differ in some respects from those used in American newspaper ROP color printing.

Methods of Handling

ROP COLOR IN GERMANY

Different techniques give good results

By RUDOLPH KRUEGER,
Hamburg, Germany

Refers to Process Printing

When we speak of ROP color we refer to true three or four color process printing—not spot color printing. We are using editorial process color in a number of editions.

Distinction should be made between the reproduction of color transparencies and art work for color advertisements. The reason for this distinction is that color transparencies are reproduced according to a standardized scale. Three or four color advertisements, however, often have to be reproduced according to a standard color scheme wanted by the customer if he uses a particular shade of the three basic colors. In the latter case, the commercial artists must take into consideration the basic colors that have been altered when making the layout.

Experiences gained with ROP color printing in our plant, in addition to reproduction and printing, also include layout of color elements. In newspaper printing, not all copy can be printed as furnished by the customer. Various points have to be considered from the beginning if good results are to be obtained. Newsprint in Germany is of a rather low degree of whiteness. Newspapers must work with a relatively coarse screen, use inexpensive inks, and take into consideration register problems.

Color photographs, mostly furnished as color transparencies, require a size of possibly 6 cm. by 6 cm. (approximately 2.36 in. by 2.36 in.). Smaller transparencies do not show the necessary definition because of the enlargement factor. Additional provision should be made for at least 3 col. width reproduction so that a sufficient number of ink keys will be available in the press color couple. Height of the picture is of no importance.

Since an enlargement is necessary, there is usually a certain lack of sharpness in the picture which will be emphasized in the register difficulties involved in newspaper printing. It is of utmost importance that the background of the original color transparencies be sharp unless the subject is to be silhouetted.

Should the background also have considerable depth in addition to lack of sharpness, which could only be achieved with three colors, then there are more than enough difficulties. It should be observed whether there are too many small details in the photographs and if they have large areas of color which can be printed with two inks. All photographs fundamentally consisting of blue, yellow, red, green and orange areas are especially effective. Transparencies with a predominant hue in one or another color do not ease reproduction work.

In preparing layouts it is necessary that commercial artists and printers cooperate closely. It is stressed that, if possible, only two basic colors should be printed one upon another. Prepare the copy in such a way as to provide for either primary or secondary colors or a basic color with black (in case of four color printing). If it is necessary to use a standard color scheme instead of one having the basic colors, prior talks with the printers are of particular importance.

Over a two year period, three important findings became the basis for our ROP color printing: Color scale, concentration of inks and color sequence.

Refutes Color Ink Chemists

The result of many tests, discussions and ideas was that the so-called cool color scale (a scale with a true magenta and cyan) would work the best. The indication of ink chemists that no genuine depth could be achieved with this color scale without additional black has been refuted in production. Value of cool scale is also supported by the fact that in reproduction the

Publishing house of Axel Springer & Sohn, Hamburg, West Germany. Among other publications, the *Hamburger Abendblatt* is printed in this plant.

normal color filters correspond to this scale.

With highly concentrated inks, the necessary layer can be considerably thinner and does not become dirty with wet-on-wet printing in quick sequence. Reproduction of the depths was substantially better with these more concentrated inks. In a series of tests the total consumption of ink was much lower so that in the end the total amount spent on inks remained at about the same level.

The third critical point was the color sequence. In the beginning, the order of printing was yellow, red and blue. It was impossible to reach a true depth with this sequence, since blue, particularly responsible for the depth, was now no longer fully effective on yellow and red. After having operated with the sequence of blue, red and yellow for some time these difficulties were overcome. Depth essentially is established by the blue and red inks.

Special color practices must also be given consideration for a number of individual fields. These are mentioned briefly below.

The production of color separations does not deviate essentially from normal color separation. The question of screens has no considerable influence. At least it is wrong to think that only a very coarse screen of perhaps 25 lines/cm. (approximately 64 lines/in.) can be used. Much better results are accomplished with finer screens of 36 lines/cm. (approximately 92 lines/in.). In this case, concentrated inks should be used on presses that are not too old. The suggestion often made to make the yellow plate in a coarser screen, so as to avoid moire, need not be considered since no moire troubles occurred.

Cool Scale Retouching

An essential factor, however, is the kind of retouching, especially in regard to the cool scale. The retouchers have to adapt themselves to the cool scale and readjust their existing color perception. Should they work with a more or less warm scale as a result of their experience, the final outcome will always show a predominant tinge into the red. With the cool scale it is necessary to keep the blue plate stronger and the red plate weaker. Readjusting to the cool scale takes a certain amount of time which should be constantly stressed in the retouching department. To what extent electronic corrections by means of scanners are of advantage remains to be seen.

Etching of color plates is done in the conventional manner or by the fast etch process. There is no fundamental difference between etching regular halftone plates or color sets. However, care should be taken with the shadows so that these do not consist of one full tone on all three plates. Otherwise there would be too much ink in the shadows in rotary wet-on-wet-printing. The total amount of ink should not exceed 220%, *i.e.*, approximately 80% of blue and red each, and about 50% of yellow. The plates are provided with a back relief etching in the same way as is done with the normal halftone in our plant.

During the development of ROP color printing in our plant, there was still one other decision to be made. This was dependent upon whether or not the highlights of color plates should be removed altogether in those areas where they might interfere, *i.e.*, highlight dots of red plates in a predominantly blue sky.

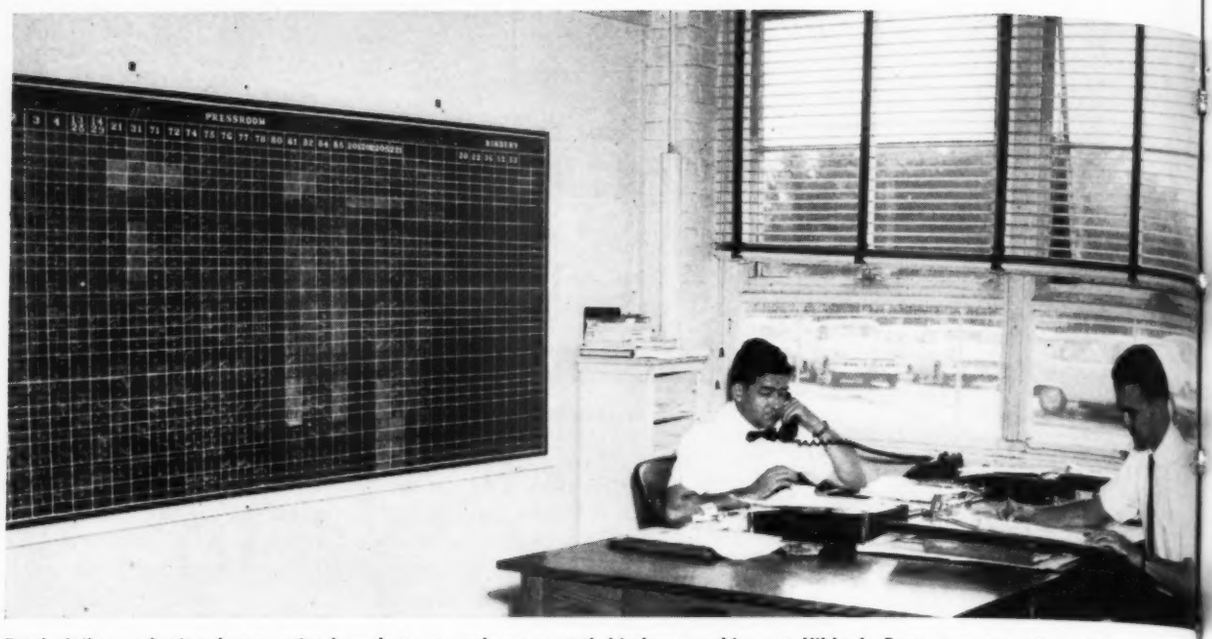
When the highlight dots are removed there is danger of getting edge effects in the rotary printing process. Consequently, the idea of removing highlight dots altogether was given up. Instead, the dots were etched to a pin point and no trouble occurred, particularly with the concentrated inks now in use.

Color Proofing Techniques

Special attention should be given to proofing ROP color plates for rotary printing. Few possibilities exist for influencing the printed result on the production press from plates received from outside sources. The proofs should be the same as if done on the production press. Particularly in ROP color printing it would be inexcusable to fashion a wonderful proof on coated stock which cannot even be approximated on the rotary press. The proof should certainly be made on the same kind of newsprint that is used on the press.

Proofing should be done with inks that correspond to the process inks in both shade and consistency. Solving this problem was rather difficult in the beginning since it was

(*Continued on Page* 125)



Total daily production hours gained or lost on each press and bindery machine at Hildreth Press are entered on the blackboard at left. Shown in the production office are Richard O. Tebbetts, production manager, left, and his assistant.

CONTROLLING Production in a Specialty Plant

By FRANK MYRICK, *Eastern Editor*, PRINTING PRODUCTION

THIRD OF A SERIES

PRODUCTION control and scheduling for the printing plant which specializes in one particular kind of work necessarily is a tailor-made proposition. This must be so because of the very nature of the work being produced.

However, ideas may be gleaned from most any system which are applicable to another company's operations. Many control systems are in use which follow basic principles, but each offering some variations of benefit to other plants.

The system explained here was developed expressly for the Bristol, Conn., plant of one of the nation's largest magazine printers, the Hughes Corporation.

Hughes operates six plants primarily for the production of trade magazines. Its volume is more than 300 publications which range in circulation from 3500 to 170,000. Page count varies from 16 to 400 depending upon issue and publication. Some trade journals are dailies, some weeklies and the majority are monthlies.

Each plant operates its production control system independently and maintains its own customer contacts. There is, however, a meeting each month of the production managers of each plant at which they discuss mutual problems.

Plants of the Hughes chain are: Hughes Printing Co., East Stroudsburg, Pa.; Wilson H. Lee Co., Orange, Conn.; Periodical Press Corp., Philadelphia; Business Press, Inc., Lancaster, Pa.; Craftsmen, Inc., Kutztown, Pa., and Hildreth Press, Inc., Bristol, Conn. The company also operates two subsidiary divisions which are: List Maintenance Div., and Hayward Printing Plate Corp., both of Bristol.

The basis of the system in use at the Hildreth Press is an extensive set of simplified job records and a continued forecasting of production.

The Hildreth production department is managed by Richard O. Tebbetts assisted by a staff of eight. They are: Matthew DiVenere, administrative-planning-scheduling coordinator; Gregory Toomey, layout and imposition, and Marie Raffanello, reprints and teletype communications. Production operators are: Howard Logan; Irene Clauss; Edward Rosenthal; Robert Burkarth.

The system begins with a memo from Tebbetts to Hildreth's customers. The memo is designed to anticipate volume of pages and tentative mailing dates of customers for six months. It was also intended to determine any off-schedule dates such as a special issue or directory.

Tebbetts believes that by measuring pages and number of impressions, the information can be projected against known production

standards. A path may then be found to predict sales volume and analyze production loads. Hildreth has found that there are obvious patterns in the peak issues of their customers which are quite similar.

Scheduling Worked Backward

All scheduling is worked backward from the mailing date selected by the publisher. Let us say that one journal is scheduled for mailing on the 10th of each month. If it is not too large a publication, a closing date of the fifth of the month must be selected. A date three days earlier should be decided upon for final makeup. In general, an average of a three day cycle should be allowed from receipt of copy to galleys to customer. Many Hildreth customers, however, entrust entire makeup to the plant's staff, and never see a page or galley until finished magazines are received.

A daily job control sheet is issued so that everyone concerned has a record of a magazine's mailing date. On this sheet are listed dates for the finished presswork to enter the bindery on each job in the plant. Included on the sheet is a special table of shipping dates for the bindery.

In addition, a fact sheet is made up for each job in the plant which contains data as to dates, folios, closings, etc. This is used in place of the customary job ticket system which Hildreth found became sidetracked in the plant.

Policy on Publication Closing

The company also believes in closing each publication as a unit. For example, if 100 pages of a 102 page magazine are printed, they are of little use without the missing two. Hence, presswork is delayed until all forms are ready. Except for extremely large or long run publications, Hildreth prefers not to go to press until all forms are OK'd.

Exceptions are made for progressive closings of larger magazines on a special schedule control sheet. Hildreth personnel also realize that no schedule can be absolutely ironclad, thus, they attempt to build flexibility into it.

Further controls are exercised by using copy instruction slips as well as ad order sheets supplied by the company to the customer.

Hildreth press crews are assigned by means of a press manning board. Tags for each member of the crews are hung prior to each change of shift. At left is Stanley Carney, pressroom superintendent, and Fred Steltzer, assistant pressroom foreman.

Makeup is carefully controlled and records are kept of each page sent in, made up, proofed, and returned to the customer. (See form No. 2 in accompanying illustration.) By careful proofreading, and watchful makeup, Hildreth has succeeded in reducing the number of revises, many times showing no more than a single proof. The OK, in most cases, is obtained with only minor corrections.

All author's corrections, plate charges, and other miscellaneous services are recorded on the spot, time computed, and billed to the customer, instead of waiting until the publication is invoiced later. This has served to reduce conflicts with advertisers and customers.

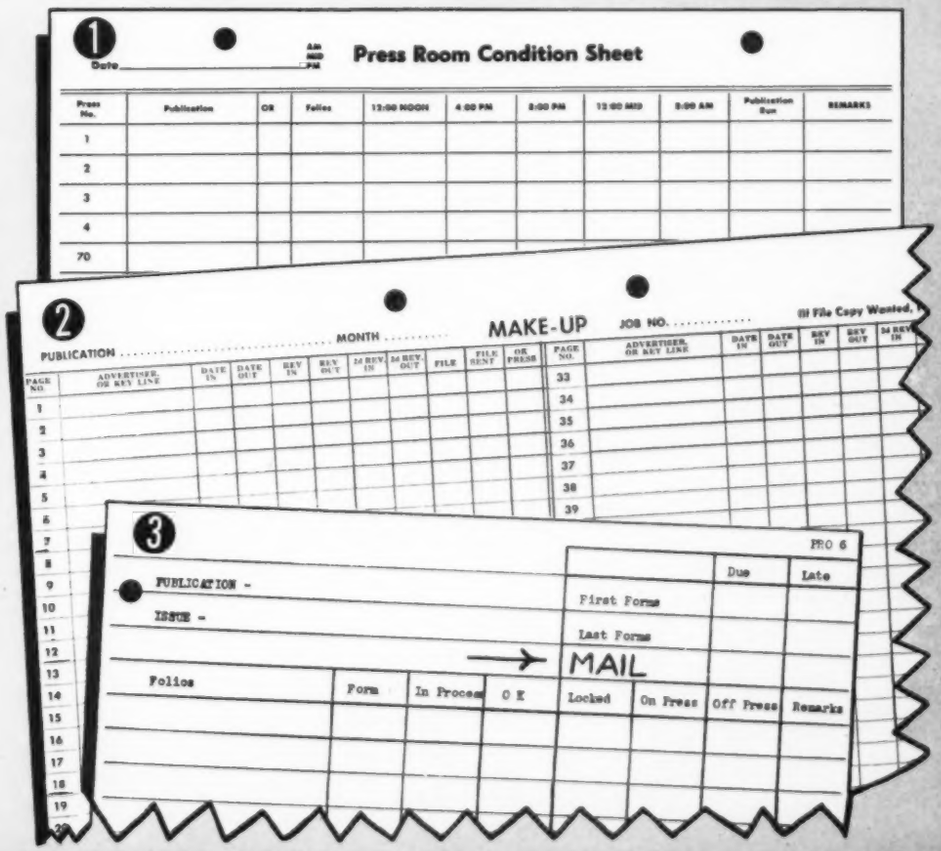
Because Hughes maintains a foundry at Bristol for making plates for its web press, publications using these facilities are carefully scheduled for this particular department. The prescribed wanted dates are initialed on completion.

Priority List Copy Coding

Important to the Hildreth operation is the system of coding copy to meet demands of a priority list. The list is kept one week in advance and is revised daily. Special letter number combinations are assigned to indicate the wanted date which is de-

(*Continued on Page* 116)

Three preprinted forms in use for control purposes at the Hildreth Press. (1) Pressroom conditions are recorded for each of the 40 presses in the plant. (2) A record of the status of each page is carefully controlled on this makeup sheet. (3) Master control sheets are kept for each publication produced in the plant.



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for presses engineered to produce a

Shooting high is the first step only. It takes skill, stick-to-itiveness and a burning desire to make a drawing-board dream come true. Goss engineers excel on all three of these counts, which explains our arm-long list of industry "firsts."

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Goss developments receive the most intensive "cross-examination" possible by the most critical jury in the world—our own engineering staff. That's why they are perfected and *proved ready* when released.

1 out of every 7 Goss men is a qualified engineer—good reason for your complete confidence. Get in touch with Goss.

***3** out of **4** American daily newspapers are printed on Goss presses*

THE GOSS COMPANY

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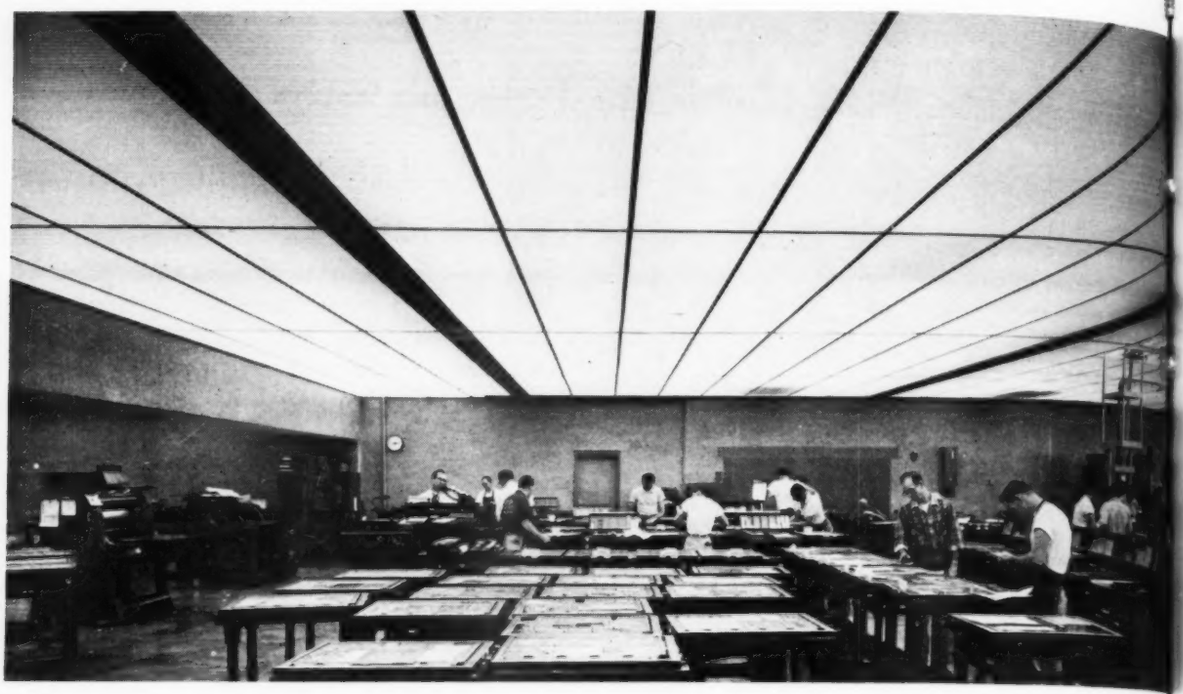
Specialists in newspaper, magazine and roto presses

A DIVISION OF MIEHLE-GOSS-DEXTER, INC.
The leader in graphic arts . . . engineering, service and manufacturing . . . industry-wide and world-wide

● *In this newspaper composing room, from 75 to 85 foot-candles are produced at the working level; ceiling is corrugated translucent material.*



LIGHTING For the Miami News' Composing Room

By JULIAN EBERLE, *Production Manager, Miami* News

ANYONE who has ever designed a lighting system for a composing room is well aware of the problem created by the required high level illumination in combination with the mirrorlike surface of type metal.

Some 20 years ago the Illuminating Engineering Society made the printing industry its national project of the year to find the answer. The Society, however, was unable to find an existing luminaire to satisfy the problem. An attempt was made to design a special fixture but this met with little success. Limitations of materials and lamps available at that time prevented adequate solution. However, the Society's specification at the time accurately described the ideal luminaire as "large in area with low surface brightness to produce a high level of shadowless light at the working level."

Ceiling of Light

When the ceiling of light type of illumination was introduced a few years ago it seemed to fill the specifications prepared years previously. The ceiling of light, or luminous ceiling, consists of a reflective surface from which rows of fluorescent lamps arranged end to end are suspended with a translucent material below the lamps to diffuse the light.

The direct light from the lamp is partially transmitted by the translucent material and partially reflected by it. The reflected light is returned to the translucent material by the reflective surface above the lamps, etc. In this way the translucent material becomes a ceiling of light. It is low in surface brightness and produces a high level of shadowless illumination at the working level. Also, it does not cause the distracting and annoying bright spots usually encountered when viewing the mirrorlike surface of type metal.

The reflective surface above the lamps is obtained by applying white paint to the roof slab, or bottom side of the floor slab above, or the suspended ceiling—depending upon

the structural features of the area being served. All three were used at the Miami *News*.

Warm white, rapid start 40 W. fluorescent lamps, 4 ft. long, were used throughout the building. The lighting circuits carry 277 V. to obtain economies in copper and construction.

The center line distance between the rows of lamps was determined by the level of illumination desired. For example, in the composing room, the rows are on 24 in. centers to produce 75 to 85 foot-candles at the working level. In the proof and teletype rooms, with a slightly lower ceiling, the spacing of 18 in. produces 105 to 110 foot-candles.

Translucent ceilings are supplied by several manufacturers, each employing different designs and materials but all producing similar results. At the Miami *News*, a system of aluminum tracks (showing as dark lines in a rectangular pattern in the pictures) was suspended from the reflective surface.

The translucent material is a milk white plastic, 0.003 in. thick, corrugated for stiffness. The material is cut to length on the job, inserted as a roll in one end of each of the rectangular areas in the framing, and fed into the tracks directly from the roll. It is removed in the same manner for cleaning or, in the area serving the conveyors, to recover a dropped message if the occasion should arise.

At extended periods, it is necessary to take down the corrugated plastic sections of the luminous ceiling. This picture shows how maintenance men remove sections which are put through a special washing machine, after which they are waxed and restored to place in the ceiling. Diffused light without glare from type faces makes work easy on the eyes.

In the picture showing the dump-proofing sections is indicated a supplementary advantage of the luminous ceiling. For purposes of this picture, the plastic was removed to indicate (note arrow) how the space between the plastic and reflective surface was used to contain the message conveyor. The broad black strip at the top delivers the supply of the conditioned air. The air conditioning ducts can also be contained in this cavity between the reflective surface and the plastic.

The installation has provided a uniform lighting level of 80 foot-candles over the entire room, entirely shadowless, without the usual problem of bright spots on type and base material.

Group Relamping Program

After two and a half years use all fluorescent tubes are being replaced in a group relamping program. At this time the luminous ceiling material is removed and put through a washing machine which washes and rewaxes the material.

In the small picture is shown how the ceiling material is removed in rolls at one end of the track system. It also shows the track system and its suspension as well as the fluorescent fixtures. The reflective surface is greatly increased by the white painted precast roof slabs. The perforated material against which the man is resting his hand is sound baffle. Rolls of the material previously removed are seen in the cart at lower left.

View in dump-proofing department, Miami *News* composing room. Arrow indicates opened section of plastic ceiling. Sections were removed before taking picture to show how proof carrier is mounted in space above.

Chicago Trib Improves Record

A set of four color engravings was completed recently in a record time of 4 hrs. by the engraving department of the Chicago *Tribune*. The *Tribune's* previous record for four color engravings was 4 hrs., 30 min.

Subject of the engravings was Britain's Princess Margaret as she rode to her wedding. The photo was printed less than 22 hrs. after it was taken in London. The film was flown to Chicago where it was processed in 90 min. The engravings were completed in 4 hrs.; and 15 sets of four color stereotype casts were made and placed on the press for the 3:15 a.m. press run.

Binds Newspaper Tab Sections

The St. Petersburg (Fla.)*Times* has distributed in limited quantity six tabloid size newspaper sections hardbound in cloth. The sections were published mostly at monthly intervals (instead of one bulky edition) in 1959 to mark the 75th year partnership of the Florida Suncoast area and the *Times* itself. The pages include liberal use of color.

Work measurement can be used to evaluate processes, train people, check performance, schedule work, and estimate jobs.

EVER since Gutenberg's time, printing management has operated by the "seat of its pants." And it has produced some of the most capable managers any industry has seen.

Yet the best of these men today say:

"The seat of our pants isn't good enough. Our industry is growing right out from under our control. We can't control costs anymore; we can't tell which way to turn among all the new improvements and new processes without some kind of help. Printing is growing up and we can't run these bigger, more complicated operations out of our hip pockets the way we have."

How to Measure

'A FAIR DAY'S WORK'

Help get rid of guesswork in your operations

By COLLIER A. ELLIOTT and PAUL D. DOEBLER*

LAST OF A SERIES

A Manager Needs Facts

Good judgment by an intelligent manager will never be replaced. But a manager needs facts to exercise his good judgment on. Without facts he can only guess—not judge.

A walk around the shop used to show the manager what he needed to know, and it still will in small plants. But successful businesses must grow, and larger operations confine the manager more and more to his desk. The work load becomes more complex and can't be gauged accurately by eye. More people in the plant mean less direct contact and supervision of their work.

All this adds up to looser control of the operation. Yet today's cost squeeze demands tighter control than ever. The modern printing manager needs new tools that will give him the information he needs to judge, not guess.

One of the most important tools he can use is work measurement. This is a direct measure of the time a man should take to do a given job when he works at the best level of skill and effort in your shop under your conditions.

Previous articles in this series showed how manual work can be measured; how researchers found that all manual work can be broken down into the basic motions the human body can make; how the basic standard time for each motion has been measured; how a skilled industrial engineer today can construct the standard time for doing any task by putting the required motions together like building blocks and adding up the basic time values.

Formula Shows Proper Time

We also saw how the engineer can combine these standard times for individual tasks into a formula. The formula will enable you to quickly calculate the time any job in your plant should take.

This article examines what some printers are doing in the five major areas where work measurement and standards can help get rid of guess work and aid managerial judgment. These five areas are:

(1) Finding and evaluating new methods and processes.

(2) Training your people to work most effectively.

(3) Keeping a continuing check on your operation's performance.

(4) Scheduling and managing departmental work loads.

(5) Estimating new jobs more accurately.

NEW METHODS AND PROCESSES—Perhaps the most important way printers have used work measurement so far is to analyze new processes and find operational improvements, especially in the composing room.

In the newspaper field, for example, work measurement has yielded definite answers for a number of plants on whether to go into photocomposition for display ad production. These studies showed that photocomposition is not a panacea for newspapers. Some will be able to profit by a change to photocomposition, but most newspapers probably could progress by improving their hot metal operations.

Recent studies have shown that hot metal can be developed far beyond our conventional operations as we know them today, in both commercial and newspaper composing rooms. One newspaper already is well into a long range hot metal development program. Also, at least two commercial composing rooms on the Eastern Seaboard have begun operations analysis based on work measurement. Undoubtedly, others are doing the same.

*Consulting engineers of the firm of Collier Elliott and Associates, Garden City, N. Y. This is the final installment of a three part series on the subject of work measurement in the printing industry.

USES FOR WORK STANDARDS

A list of 31 uses for standards, compiled by a newspaper production manager whose company recently began using work measurement and standards in the composing room.

I—DEALING WITH INDIVIDUALS

(1) To define "a fair day's work for a fair day's pay."
(2) To screen new employes.
(3) To maintain pressure on individuals.
(4) To compare productivity of individuals.
(5) To determine the kind of work each man does best.
(6) To record effect on individual productivity of periods of high or low copy flow.
(7) To provide basis for discharging neglectful men.
(8) To provide sound basis for incentive payments.
(9) To provide a basis for praise or censure (a personnel relations device)
(10) To provide an index of morale.
(11) To provide accurate information about relative individual productivity for use during negotiations with the union.

II—WORKING OUT IMPROVED OPERATIONS

(12) To locate expensive work units.
(13) To find wasteful practices of individuals or systems.
(14) To evaluate any planned changes in systems or methods before installation.
(15) To provide a basis for calculating actual dollar savings which can be effected through a change in operation.
(16) To show the cost burden of excessive changes in copy and proofs (or on newspapers of multiple editions or of replates) by recording the standby manpower needed for such work.

III—MONITORING CURRENT OPERATIONS

(17) To maintain a statistical history of efficiency which makes possible direct comparison of relative gains or losses from month to month.
(18) To determine the effect of changes in deadlines.
(19) To record level of efficiency during periods of overtime.
(20) To record production efficiency level:
  (a) Following application of human relations program.
  (b) During union difficulties.
  (c) When new executives or supervisors are appointed.
  (d) During slowdowns, should they occur.

IV—PLANNING WORK LOADS AND FLOW

(21) To measure work loads in meaningful terms, *i.e.*, actual work content of job in terms of minutes required.
(22) To develop a statistical history for use in calculating the minimum number of men necessary to handle a given anticipated load of work.
(23) To record the effects of periods of high or low work volume on a given group of men.
(24) To provide a means of disposing a work force in the best possible manner to meet a work load.
(25) To determine where the "dead time" is for better disposition of work force or revision of deadlines.
(26) To spot shifts in the operation:
  (a) Changes in ratio of news to advertising or ratio of different classes of advertising. (In other words, changes in character of work load).
  (b) Changes in proportion of manpower and costs being devoted to various kinds of work in the room, and compare this against a previous standard or figure.

V—BUILDING BETTER SUPERVISION

(27) To provide supervisors with information they can use to determine where their supervisory efforts should be concentrated.
(28) To measure relative effectiveness of different supervisors, by comparing the efficiencies of the employes they manage.

VI—TRAINING AND RETRAINING MEN

(29) To provide a basis for deciding if a retraining program is advisable.
(30) To provide specific methods to be taught in retraining.
(31) To provide a definite goal for those being trained.

Their preliminary work points to many important areas for improvement. For instance, conventional handling of copy, layouts, and proofs—just plain paper shuffling—was found to be one of the biggest single composing room costs. This paper shuffling includes nothing but the passing back and forth, folding, unfolding, picking up, laying down, and page turning of paper. At the linecasting machines alone, conventional paper shuffling on some kinds of work amounts to more than 50% of the time involved in the job!

The newspaper mentioned above is now planning a copy-off system for handling display ad copy. A typist will retype all copy onto easily handled, standard size slips of paper that will readily fit on typesetting machine copy holders.

For classified advertising, where copy must be handled several times to get different sizes of type, this same newspaper has designed a new copy holder that will permit operators to turn sheets of copy like pages of a book. This is the most economical motion pattern for going through a stack of sheets while keeping them in order. This idea may also be applied to news copy in the future.

Other ideas are also in process for handling proofs and layouts economically. The basic principle is to keep all paper flat to eliminate folding and unfolding. Also, to handle groups of sheets in one basic motion without having to jog them or insert and remove them time after time from enevelopes.

Neglected Composing Problem

Another neglected composing room problem is the work of sorting and gathering type, cuts, and material for makeup. Even small operations can profit by assigning this responsibility to a specific person instead of leaving it to each comp to get his own materials.

The newspaper has established definite procedures and job situations for this work on news and classified.

On the news side, one man (some

(*Continued on Page* 128)

Glamour of Florida's architecture is included in main entrance to new building for Miami *Herald*

Miami Herald's New Building To Be Among Nation's Finest

BY mid-1962 it is being planned that a battery of 63 new Goss Headliner Mark II press units will begin daily production of hundreds of thousands of newspapers from the modern new home of the Miami *Herald*. Historically, the first press run will mark a new chapter in the unusual story of this newspaper.

Technically, the multi-million dollar new plant—located on a 10 A. site at the edge of Miami's picturesque Biscayne Bay—will represent a landmark to long range planning and ingenuity.

The decision to invest heavily in the new plant came after some 50 years of growth, 23 years of it under Knight Newspapers' publisher, John S. Knight, and his brother, James L. Knight.

Founded in 1910 by a pair of Indiana lawyers equipped with determination and a flatbed press, the *Herald* became No. 2 in the nation in total advertising and editorial content.

During its period of greatest growth under the Knight brothers, the *Herald* in 1941 replaced its original quarters with a new face and additions in the Miami downtown district. But even before the end of World War II, these facilities were to prove to be inadequate.

Then the Knight brothers and a team of top production aides began a study of future needs and the most modern newspaper equipment available—a study that was to take five years and include personal inspections of other plants throughout the nation.

The first major problem to tackle was location. In Miami's congested downtown area, distribution was a problem, as was delivery of newsprint by truck from Biscayne Bay ship docks.

Over a period of several years, the *Herald* studied a patchwork of sites throughout the Greater Miami area—eyeing not only the distribution problem but the trend of population centers and growth. Finally, a 10 A. site on the bay between the two main causeways connecting downtown Miami with Miami Beach —about two miles from the present site—was chosen, and after 42 separate land deals construction was ready to begin.

In effect, the new building—reaching more than 600 ft. between the two causeways—will consist of two buildings bridged by office space. One will be the press building on the north side, extending 167 ft. along the water and 290 ft. deep. The south building—housing business, circulation, editorial, composing, stereotype and paper storage—will run 450 ft. along the bay.

Most striking construction innovation will be the pressroom on the second floor of the north building. There will be room for parking and loading a fleet of 42 trucks under the pressroom at ground level. The elevated pressroom will

(Continued on Page 131)

Architect's drawing of Miami *Herald*'s new home. Building at left will contain pressroom; building at right will house all other departments.

Chemco MARATHON

ALL NEW 24" x 24" ROLL FILM CAMERA

with automatic roller applied contact screen

Now, for the first time, engravers and lithographers can make contact screen halftones with roll film speed and economy in a 24" camera.

The new Marathon is based on the proven design of Chemco's famous Model F Series roll film cameras but incorporate these outstanding advancements:

- Holds two screens in any combination of the following:
  Rectangular—up to 24" square
  Circular—up to 23½" diameter
  Contact—automatic, up to 18" x 22"
- Has single knob film control
- Has new guillotine type cut off knife
- Has simplified diaphragm control
- Restyled with all controls designed for maximum operating simplicity
- Color accessories available

Let us prove to you that the Marathon camera, through roll film speed and economy, costs less to own and operate than any other camera of its size.

AUTOMATIC CONTACT SCREEN MECHANISM, an exclusive Chemco development, saves time, eliminates handling and increases screen life.

chemco

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For More Information Circle 40 on Reader Service Card

At extreme left is shown the new 60,000 sq. ft. one-story addition to the plant of Smith-Brooks Printing Co., in northeast Denver, Col.

Straightline Production in Denver Plant

PRACTICALLY self-sufficient is the best way to describe the plant of Smith-Brooks Printing Co., Denver, Col. Without utilizing outside services, this firm does its own typesetting, platemaking (except photoengravings), presswork, binding and shipping. Apparently Smith-Brooks has found this type of operation successful, for the company has recently built a 20,000 sq. ft. addition to its existing plant.

While President E. F. O'Hara says his firm does general commercial work, the greatest single product is telephone directories. Also produced are fine process color work, books, publications, railroad time tables and tariffs, road and air maps, labels, brochures and other printing. Special equipment is operated for manufacturing business forms.

Letterpress and offset processes are used, the majority of the firm's work being done by offset. The company employs 180 people.

Building Details

The new building addition is 65 ft. wide by 300 ft. long. The entire building (both original and the addition) is of masonry construction. There is no basement; instead, the first floor is raised by fill-in to the loading dock height.

Lighting is by fluorescent fixtures, the foot-candle strength varies from press to press, but is sufficient for non-strain illumination. Flooring is concrete.

Together with the original area of 60,000 sq. ft. floor area, the total floor space now consists of 80,000 sq. ft.

The plant is located alongside a railroad spur in northeast Denver near Stapleton airfield. The plant building is so situated that parking space is provided for all employees. In addition, a special area is provided for customer parking.

Installed in the addition (see accompanying diagram) is new equipment for volume directory, catalog and publication printing and binding.

The new Hantscho eight cylinder webfed offset perfecting press is equipped with two folders. Web cutoff is 22¾ in. and the width is 40 in. On the press can be printed single or multi-colors folded to tabloid, double parallel or quarterfold product ready for conveyor removal.

Continuing the straightline production arrangement, at the end of the press there is a new Perfect bind machine, gathering and covering machine and straightline trimmer with conveying, stacking and tying equipment. This equipment permits work to be gathered, covered, stacked and trimmed without manual lifting. The finished products are taken from the trimmer, tied by machine and are conveyed to a semi-trailer truck that can be backed into a truckwell in the new addition.

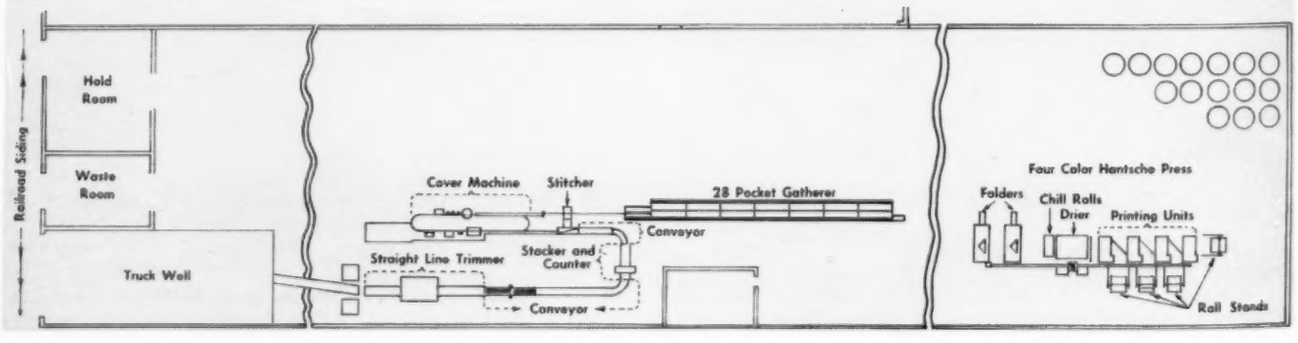
Composition in the composing room is set on Linotype and Monotype machines. Reproduction proving is furnished the completely equipped offset plate department. The electrotype department makes both curved and flat plates. Molds are made from Tenaplate and plastic materials.

Press Equipment

In the letterpress pressroom, press sizes range from handfed platens up to and including 38 in. by 50 in. units.

In the offset pressroom there are

Continuous straightline production arrangement of printing, binding and tying equipment with packaged delivery via conveyor into truck.



Emporia Gazette Wins the 1960 Ayer Cup

10 out of the last 12 winners of the coveted AYER CUP have been regular users of BURGESS MATS

In addition to the 1960 winner, four other Burgess mat users received honorable mention: The Berkshire Eagle, Pittsfield, Mass., The Derrick, Oil City, Pa., The Gazette and Daily, York, Pa., and Rutland Herald, Rutland, Vt.

BURGESS CELLULOSE COMPANY
FREEPORT, ILLINOIS

Canadian Representative: R. M. Lousen & Co., Ltd., Kennedy Rd., Agincourt, Ontario

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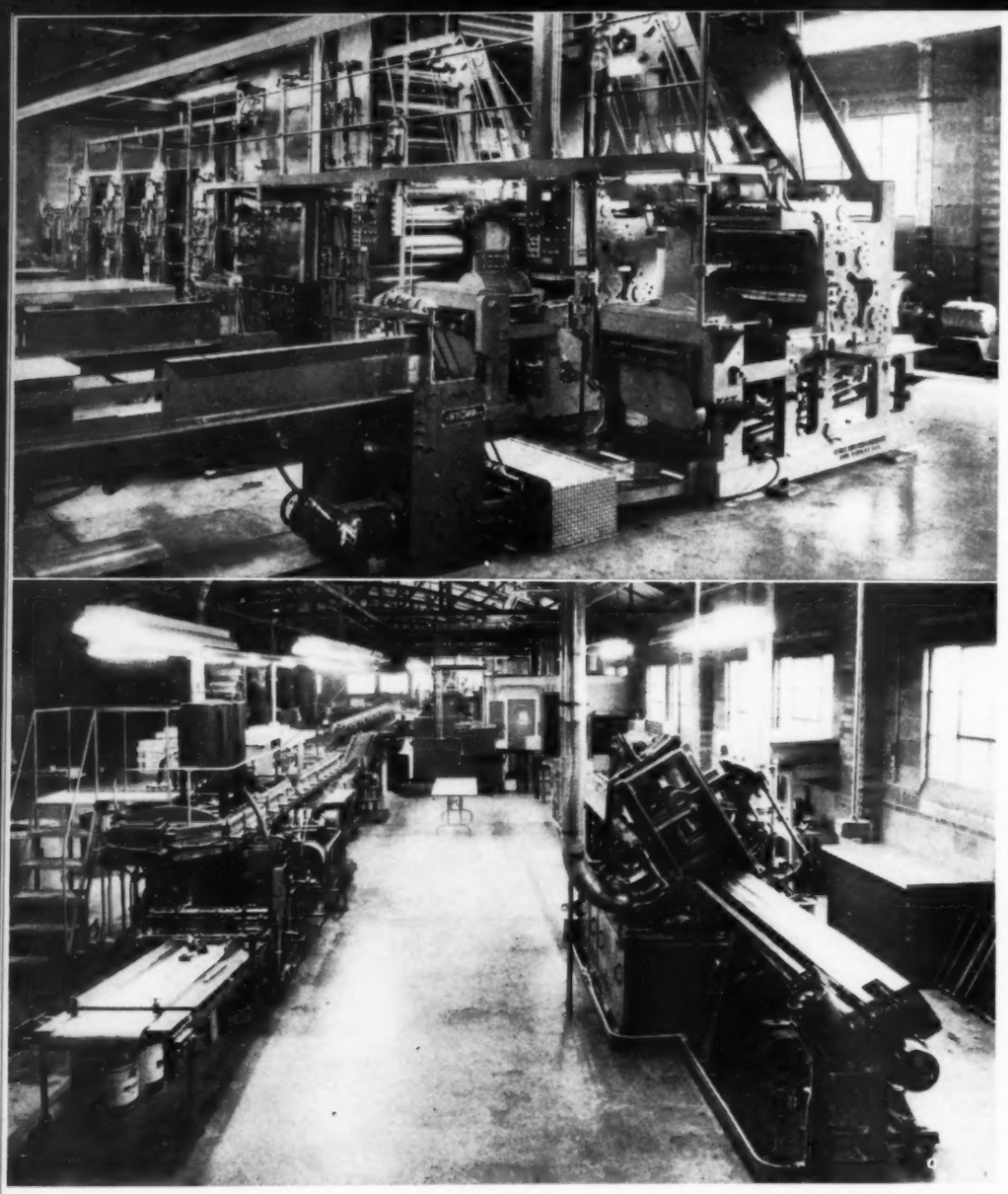


In top picture is the Hantscho eight cylinder webfed offset perfecting press with two folders. Press prints single or multicolor work and folds tabloid, double parallel or quarterfold product. In lower picture is view of Sheridan automatic gathering, Perfect binding, covering and trimming equipment; Taylor counter-stacker is in the center. The conveyor system was designed by the Loach Company, Montreal, Can., for Smith-Brooks Printing Co. of Denver.

two webfed presses, a webfed forms press and sheetfed presses with a range of 14 in. by 17 in. up to 42 in. by 58 in. in one and two color models.

Equipment in the bindery permits versatile operation. One of these is a Perfect bind gathering, covering and trimming machine with 28 gathering pockets for side stitch books. For saddle stitched production there is a four pocket machine-feed gatherer, stitcher and trimmer, and a hand fed four pocket gatherer and stitcher. Two business forms machines collate up to 10 parts. Folding machines range in sizes from 17 in. by 22 in. up to 38 in. by 41 in. Cutters have 42 in. up to 54 in. capacity. Other small machines usually used in bindery work are available.

Production operations are under the supervision of Paul Hastaday, planner; he is assisted by Charles Kelley, scheduling, and Don Caven, coordinator.

ITCA Concerned with Worker Shortage

The election of a second vice president and discussions of topics vital to the growth of typographic composition formed a main part of the program at the annual spring conference of the International Typographic Composition Assn., Inc.

A sad announcement made during the conference was the disclosure of the death of Frank M. Sherman, ITCA's secretary emeritus (see story on opposite page).

Elected to succeed the late Ralph P. Speece as second vice president was M. J. Baumwell, of M. J. Baumwell Typography, New York. At present, Baumwell is ITCA regional vice president for the metropolitan New York area.

Oran I. Brown, director of Industrial Relations, Rand McNally Co., discussed what he termed to be the industry's number one problem and "only deterrent to the industry's future growth"—the manpower shortage which exists today.

Brown stated that the typographic composition industry should be handling all typography and typesetting. It is the manpower problem, he stated, that is preventing this accomplishment. He said that manpower shortages cause problems beyond those of production, stymying efforts in sales and increasing costs.

Reversing the trend of blaming unions for the manpower shortage, Brown said that management must take the blame for failure to train personnel. To eliminate the manpower shortage, Brown suggested the adoption of a thorough training program for apprentices.

The recruitment and training program of the Graphic Arts Institute of New England was described by Henry J. Mascarello, executive director of the Institute.

Through this program young people are made aware of the opportunities in the Graphic Arts through the school and guidance counselors. The program has involved the preparation of literature, discussions between management and school representatives and has proved successful, according to Mascarello.

Photocomposition was discussed by James E. Shaw, president of Buffalo Type Service Corporation, Buffalo. He concluded that there is a large market for this type of service and that "considering the sales potential, the capital outlay is not prohibitive."

Use the convenient yellow Reader Service Card found in this issue for requesting free literature offered in PRINTING PRODUCTION.

Electronics Theme Of TAGA Meeting

The 12th annual meeting of the Technical Assn. of the Graphic Arts will be held at the Park-Sheraton Hotel, Washington, D. C., June 20-22.

Theme of the meeting will be electronics in the Graphic Arts. Papers are to be presented on electronic color correction, electrostatic printing, and gravure etching by electronics.

Other topics to be covered in the technical presentations include electronic proofreading and printing rectifiers.

The general papers session will have presentations on overprinted ink film drying and ink film characteristics. Another paper will deal with studies of printing with black ink. Tentatively scheduled are papers on quality control and the measuring of ink and printed sensitivities.

Color will be discussed in sessions on color separation sensitivities, color determination, etc.

Philip Tobias, president of the Association, will be moderator of an evening panel session which is designed to summarize the papers which have been presented.

Registration fee for members is $28 and for nonmembers, $33. For full information, write to: Robert J. Lefebvre, 3404 Farragut Ave., Kensington, Md.

ITCA Secretary Emeritus, Frank Sherman Passes Away

Frank M. Sherman, founder, lifetime member, and former secretary and director of the International Typographic Composition Assn., died May 10 in Philadelphia at the age of 80. Well-known in Graphic Arts circles, Mr. Sherman was recently chosen *Man-of-the-Year* by Hamilton Paper Co. In 1954, he was honored with a presentation of a *This is Your Life, Frank Sherman,* program at the ITCA convention.

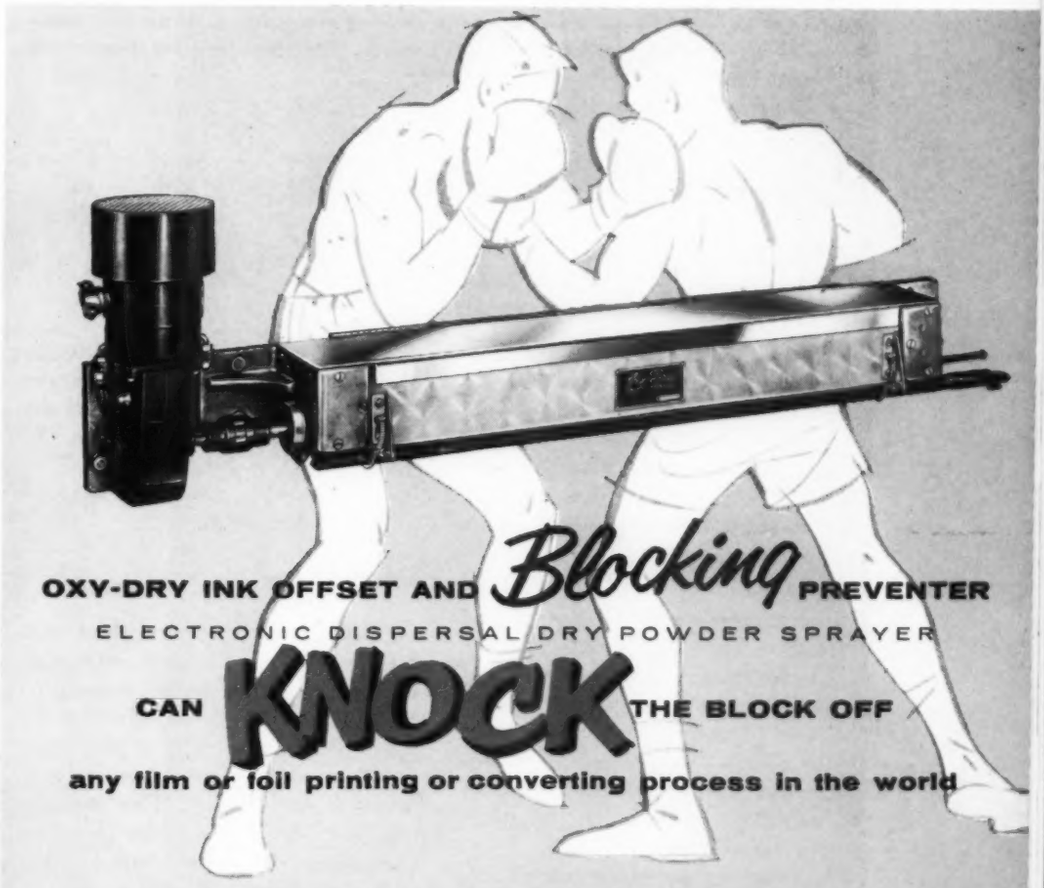
SHERMAN

Mr. Sherman's acquaintance with the Graphic Arts was made through his father who operated the Plattsmouth (Neb.) *Daily Journal.* His career began after he had completed his journalism studies at Nebraska State University. He was a salesman for Intertype Company; managed, edited and owned part of the Neenah (Wis.) *Daily News-Times;* and later managed the Chicago office of Intertype.

In 1919, Mr. Sherman was instrumental in founding the ITCA, acting as secretary until 1923 when he founded a firm of his own. In 1926 he was named advertising and publicity director of Lanston Monotype Co., a position which he held until 1946 when he became executive secretary and director of ITCA.

During his ten years of service as secretary-director of the ITCA, Mr. Sherman worked to improve the cost and accounting services of the association and for better production methods and standards for the industry. He retired in 1956.

Mr. Sherman, who was also a noted lecturer and author, is survived by his wife, Mayo.


OXY-DRY INK OFFSET AND Blocking PREVENTER
ELECTRONIC DISPERSAL DRY POWDER SPRAYER
CAN KNOCK THE BLOCK OFF
any film or foil printing or converting process in the world

A fine, even coat of OXY-DRY ink offset prevention powder will knock the block off of any sheet or web of film or foil—at any point in processing from manufacture through printing or converting.

The most efficient, easiest-to-operate device for laying down the powder is the OXY-DRY ink offset preventer. OXY-DRY starch powder will increase the speed of ink set and drying and materially increase ink vapor evaporation. Where ink offset *is* a problem, as on most foil runs, *nothing* excells the OXY-DRY ink offset preventer.

Would you prefer to call it "slippage"? To make positive sure your film or foil will slip or jog perfectly and convert without sticking in any way, from ink offset or blocking, add an OXY-DRY ink offset preventer.

***Research note:* Oxy-Dry has tackled the job of removing dry powder (and any other particles) from film and foil. Some remarkable results are assured with the OXY-DRY SHEET CLEANER.**

HOW TO BUY OXY-DRY

DON'T DELAY PROFITS—If you want a head-to-head, barrel-head deal done, our sales-engineer will visit you promptly. If you want us to DETAIL YOU BY MAIL, send us your press or converting machine specifications. Do it, don't delay profits!

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For More Information Circle 140 on Reader Service Card→

Maintenance of expensive presses means using chemical solvents to clean ink from rollers. Among the variety of gloves which afford hand protection for pressmen handling these solvents are Pioneer Rubber Co.'s NS-35 gloves shown here.

Protect Pressmen's Hands With Proper Type of Gloves

SAFETY measures for printing plant employees whose hands come in contact with solvents, chemicals and abrasives are receiving greater attention by management. One of the problems is how to provide on-the-job hand protection and yet not interfere with production operations.

In the printing industry there are numerous jobs in which worker hand protection is a must. Of great importance are jobs involving the use of strong agents to keep press rollers and blankets clean. Even the seemingly minor task of lifting heavy type forms calls for proper hand protection.

A recent survey taken among experienced pressmen indicates an increase in hand dermatitis. Allergies to oils and the cleansers which are used in their jobs are common. In some instances, the severity and recurrence of these dermatoses has resulted in retirement.

Hand dermatitis from cleaning solvents may be prevented if pressmen protect hands. These are Pioneer Rubber Co.'s Stanflex gloves.

Prevention—Not Treatment

Studies by skin experts show that the number of new materials brought into use by expanding technologies, although effective for their individual job applications, are detrimental to the healthy condition of the hands. This includes cleaners containing fast - acting chemicals. It is the responsibility of the employer, as well as the individual worker, to see that these irritating agents do not touch the skin and create a detrimental condition to the hands.

This is where proper industrial hand protection comes in. It offers prevention rather than cure. The theory is that it's far better to avoid skin trouble than to spend money on balms, ointments and medical treatment later.

Dermatologists advise prevention rather than treatment as the best medicine for skin disorders. The simple precaution of wearing the right type of industrial gloves whenever hands come in contact with oils, acids, chemicals and solvents can pay off in a saving of time and money.

Gloves can be donned and removed within a matter of seconds, causing no delays in production.

Proper Type of Glove

To obtain the best possible hand protection, care must be exercised in the choice of glove material, shape, size and style. A variety of liquid-tight, acid, chemical and oil-resistant Neoprene and vinyl coated gloves in a variety of styles and weights are available for printing industry worker use.

Glove models which provide liquid-proof hand protection are available for use by pressmen. They are resistant to acids, oils, caustics, solvents and chemicals. They provide a safe, non-slip grip. Their interlock-knit linings insulate the hands against extreme temperature changes and absorb perspiration.

Hand dexterity is not impaired through use of the proper kind of glove. The curved glove fingers eliminate floppy finger tips. The elastic lining provides free finger and hand movement. Worker hand fatigue is eliminated since objects need not be gripped as tightly as with bare hands. The grip-safe type of glove permits taking firm hold on slippery surfaces, thus reducing safety hazards.

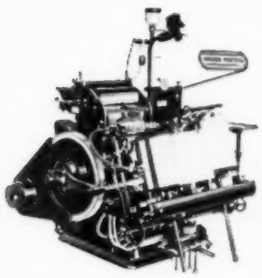
Flock lined Neoprene gloves with built-in non-slip grip surface are designed for use with lighter equipment. They are said to slip on and off easily and are designed for cleaning and inking the Multilith and Multigraph types of presses.

A chart has been prepared to assist in the purchase of industrial gloves. It is entitled *Foolproof Industrial Glove Selector*. To obtain a gratis copy circle No. 259 on Reader Service Card.

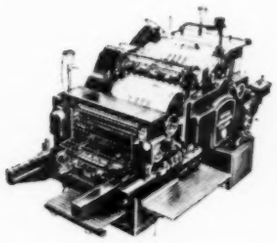
Miller Enters Web Offset Field

Miller Printing Machinery Co. has acquired the manufacturing and patent rights of the Trailblazer webfed offset press from Waldron-Hartig Div., Midland-Ross Corp. Web offset will be a new field for Miller, a firm which has previously been active in manufacturing webfed gravure multicolor equipment. According to F. G. Betlock, Miller vice president, no definite marketing plans have been formulated for the Trailblazer.

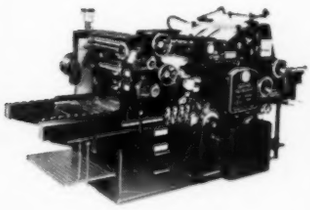
Heidelberg



automatic platens
10 x 15 — 13 x 18



single color job cylinders
15 x 20½ — 21 x 28



two-color, (rotary & flatbed)
15 x 20½ — 21 x 28

and now you get
the second color profit on
O. H. two-color presses

1st in sales!

"HEIDELBERG OWNERS GET THE EXTRA PROFITS!"

... so agree thousands of printers in naming a common motive for selecting Heidelberg letterpress.

Why does Heidelberg letterpress continue to gain in sales and popularity?

Frankly, printers buy them

... *because* Heidelberg letterpress is *modern precision letterpress*.

... *because* of precision engineering, perfection in manufacture and glove-fitting assembly.

... *because* Heidelbergs give you that extra jump in a highly competitive market.

... *because* of their versatility and top performance in printing, embossing, die-cutting, numbering, creasing and perforating.

... *because* of time and money saving features such as single lever control, built-in washup, minimum makeready, full accessibility (no swing-aways), tremendous impressional strength, unequalled ink distribution, and many more.

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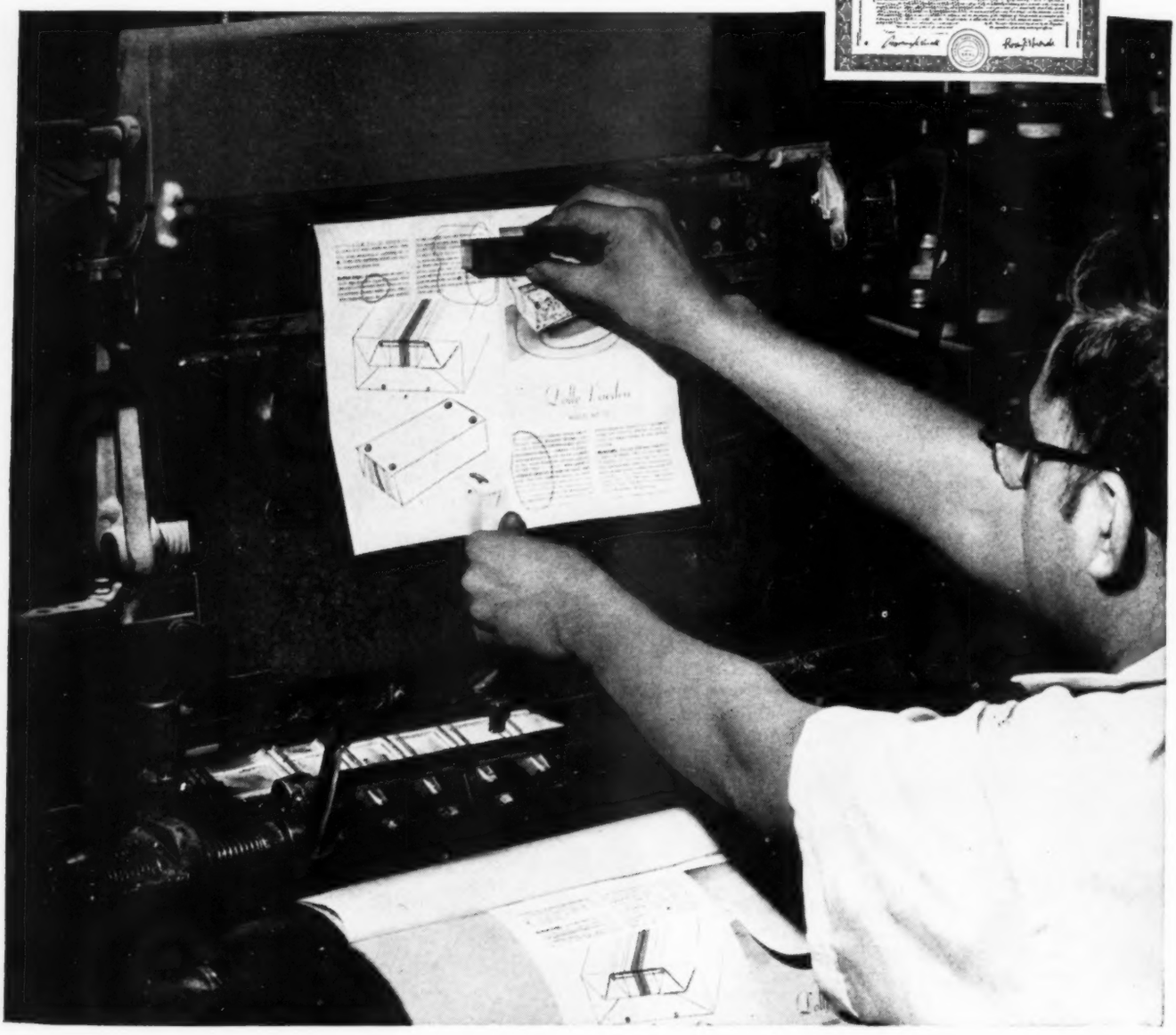
Earn a share of Kimberly-Clark stock!



Stock earner No. 7!

"Music stand" make-ready—When patching make-ready, a simple magnet will hold your marked-up sheet where it can easily be seen. This "music stand" method frees both hands for handling your knife, paste, and make-ready tissue.

Anastacio Garcia, Hillison & Etten, Chicago, Illinois

Stock earner No. 8!

Profitable padding procedure—Keeping padding compound out of the slots in slot-punched forms can easily be accomplished with this time-saving method. Simply pile up the forms in the usual manner with weights on top. Then cover the slots with 1" masking tape and apply the compound without worrying about slot edges. The tape protects the slots and may be pulled off after padding—leaving clean, neat slots.

Charles G. Gernheuser, Gernheuser Printing Co.
Toledo, Ohio

Stock earner No. 9!

Tip for feeding tissue—When running 7 or 9 lb. tissue on a Kluge press, the tissue sheets (especially if long grain) tend to roll over in the feeder. As the stock on a Kluge stands on edge and must have body to do so, a piece of 15 pt. cardboard, cut to straddle the two stock guides, will hold the stock upright. When the cardboard is cut as shown, the feeder can pull each sheet out smoothly, and straight from under the cut-out space in the cardboard. This system will eliminate a pressman's tenseness, provide greater output, minimize spoilage, and prove more profitable for running thin papers.

Nat Feitlowitz, The Print Shop
Paterson, New Jersey

Send us your ideas—You may earn a share of stock. Just write them out clearly and simply and send to Kimberly-Clark. Pictures or drawings that help explain the idea are welcome. All items become the property of Kimberly-Clark. For each idea chosen to appear in subsequent national magazine ads, a share of Kimberly-Clark stock will be awarded to the sender. In case of similar contributions, only the first received will be eligible for the stock. Decisions of the judges are final. A total of eighteen shares will be awarded.

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Kimberly-Clark Corp.
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Printers profit by top press performance of PRENTICE OFFSET ENAMEL by Kimberly-Clark!

Profit with Prentice on quality jobs by achieving full-color fidelity and uniformly high level of performance at low production-and-handling costs.

Profit with Prentice by saving customers' postage costs. Prentice in 100# weight is the equivalent of a 55# cover stock, thanks to its strength and dimensional stability.

Profit with Prentice where product appearance needs the richness and sparkle that only high gloss printing on double-coated stock can attain.

Kimberly-Clark's complete line of printing papers includes:

For letterpress:
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For web offset:
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Prentice velvet coated offset
Prentice coated cover
Lithofect offset enamel
Shorewood coated offset
Fontana dull coated offset
Kimberly Opaque

SWAP IDEAS WITH YOUR KIMBERLY-CLARK MERCHANT! Tell him your requirements and he will help you choose the right paper for the job.

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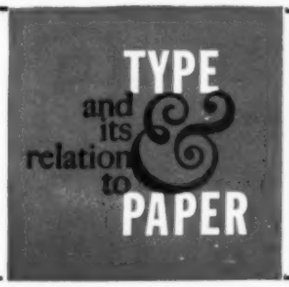
from Kimberly-Clark
16-page booklet by famous typographer and calligrapher, R. Hunter Middleton



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For More Information Circle 101 on Reader Service Card

Research Council Meeting

(Continued from Page 63)

not necessary to hire highly educated people for the bulk of the work. One of the important things in establishing a program is to educate the people regarding how to use quality control. One of the important points is to persuade these people not to overcontrol after getting into the right frame of mind.

Russell K. Johnson, E. I. du Pont de Nemours & Co., spoke on the establishment of a quality control program in printing operations. This was brought about by customer demands for alikeness in labels and packages. After the program had been installed everyone concerned had to change his thinking, for instance with respect to press sheets. It was soon determined that the plant was not printing perfect products.

Major objectives of the quality control program were determined to be: (1) End product—know what is being shipped; (2) Raw materials—paper and ink—inform

R&EC Panel Participants

(All names read from left to right)

1—*Photosensitive Materials Panel*—Albert R. Materazzi, Litho Chemical & Supply Co.; Clarence A. Vistain, Harold M. Pitman Co.; J. Leonard Starkey, McCall Corporation, Dayton, O., moderator, and Lester E. Goda, Jr., Eastman Kodak Co.

2—*Metals Panel*—Emmet Archer, Dixie Cup Div., American Can Co.; John Casanova, Printing Developments, Inc.; Robert M. Downie, Marathon Div., American Can Co., Menasha, Wis., moderator, and George H. Eddleman, Imperial Type Metal Co.

3—*Paper Panel*—P. T. Dickie, Crown Zellerbach Corp.; William Palinski, Western Printing & Litho Co., Racine, Wis., moderator; Harvey Sweetland, St. Regis Paper Co., and John Langmaid, S. D. Warren Co.

4—*Ink Panel*—Walter R. Surgeon, General Printing Ink Div., Sun Chemical Corp.; Richard Mathews, Marathon Div., American Can Co., Menasha, Wis.; Werner F. Gerlach, Capitol Printing Ink Co., and William H. Walker, Meredith Publishing Co., Des Moines.

5—*Adhesives Panel*—J. P. Sermattei, Du Pont; John C. McCahon, Smyth Manufacturing Co., moderator; J. W. Lockhart, Du Pont; Richard J. Nadaskay, National Starch & Chemical Co.; Walter Alexander, Jr., American Adhesive Mfg. Co., and Paul Koller, Minnesota Mining & Mfg. Co.

the vendor by specification as to what is wanted, and (3) Control work in process with respect to ink color and register.

Permanent standards were developed for use in the Du Pont plant. The materials suppliers, when informed about the quality control program, tried earnestly to comply with the specifications.

Johnson described efforts to get consistency in the quality control target. Through densitometers, statistics were obtained for the inkmakers; for the customer, criteria from the visual aspect were created. Customers were pleased especially when told that the company could maintain standards within 97%.

Determining Color Uniformity

In the reports to pressmen, color uniformity is determined by densitometer readings at a ratio of three sheets per thousand. Ink film thickness is measured by densitometry. In the control of tones, the densitometer won't tell how clear or sharp they are. There are many things densitometers won't tell—for instance, a battered halftone dot. Johnson is now using strictly pi chart and halftone wedge facilities. In the pressroom the foreman and quality control man check for any differences from standard in color of ink. On progressives, however, the OK is up to the foreman.

The speaker explained a method for inserting colored tags by stabbing at specified frequency in a skid of printed sheets to determine certain imperfections before the work leaves the pressroom. A member of the audience suggested that instead of using tags for the purpose, color pencil coding marks could be made on the narrow edge of the paper on the skid. This alternative was suggested to avoid the loss of tags in handling.

Johnson reported that less than 3% hand inspection is done in his plant. Enthusiastically he reported that statistical quality control had educated all people in the plant. They became interested purely from a psychological standpoint. He reported that as yet the system has not been completed, the greatest need being determination of standards by instrumentation to enable getting results quickly. One of his closing comments was: "You must build quality control into the job—

(*Continued on page 120*)

PUBLICATION CABINET No. 4109
For storage of small make-up materials

NOW-
ONE MAN

moves page forms in and out safely—quickly—effortlessly

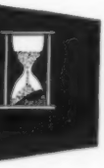
Hamilton's Electric Page Storage Cabinet stores 20 forms in less space, with minimum labor and cost. With the flick of a switch, any letterboard may be raised or lowered to bring it to the height of make-up trucks. One man handles forms easily, quickly, safely—saves time and cost. Valuable shop space becomes more productive. An investment that pays for itself quickly, *stays profitable* for years to come.

SIX-FOOT AD STORAGE TABLE No. 2924
48 numbered shelves, each 20¾" wide

See this equipment at ANPA Mechanical Conference Booths 36-37

Hamilton
PROFESSIONAL AND SCIENTIFIC FURNITURE

new dimensions in time and space efficiency for: physicians; dentists; industrial, hospital, school laboratories; draftsmen; printers; libraries; home laundries.



Hamilton Manufacturing Company, Two Rivers, Wis.

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...by drum
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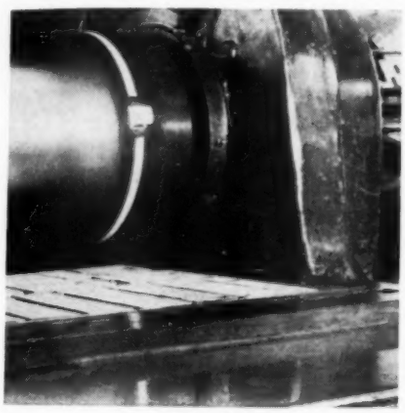
PRINTING PRODUCTION's IDEA FILE

SHORT CUTS · TIME TRIMMERS · HELPFUL HINTS · MONEYSAVING IDEAS · IDEA SWAPPING · GIMMICKS & GADGETS · TROUBLE ELIMINATORS

MARKS MOLDED STEREO FORMS

In the picture is shown an automatic newspaper chase marker which has been applied to the impression cylinder of a stereotype roller molding machine. As each page form for the day's paper is molded, the sponge rubber marker on the impression cylinder imprints a yellow ink spot on the top surface and at the foot of the chase.

The reason for using this device instead of chalk, to indicate that the page has been molded, is that sometimes the stereotyper neglects to use the chalk on the chase after molding. Then, too, if the chalk mark has been obliterated through subsequent handling, one or more of the page forms may be molded twice. This can happen during edition closing time when the forms



Device marks stereo chase as form is molded.

are delivered from the composing room to the roller molder in rapid succession.

The device is easily applied to the impression cylinder. Double coated adhesive tape, ½ in. wide, with the white protective liner, was passed completely around and fastened to the cylinder. This white band serves as a gauge for properly positioning the form on the roller bed so the 1 in. cube of foam rubber can make its mark on the chase.

Regular yellow ink from the pressroom is applied to the foam rubber cube once a day. There is just enough squeeze of the rubber when molding a mat to permit making chase marks for the entire day.

For the Reader

A chance to be paid for ideas which have netted savings in time, money and effort in your printing plant is offered readers of *Printing Production*. If your idea is accepted for publication it will be printed in the Idea File, a regular *Printing Production* feature, and a check will be mailed to you.

Send as many as you wish to: Idea File Editor, *Printing Production*, 1276 W. 3rd St., Cleveland 13, O.

If desired, a similar device may be applied to the other side of the impression cylinder. A little ingenuity will enable you to affix the foam rubber cube directly to the cylinder, perhaps with one of the cements available in tube form.—*H. J. Ratcliffe, stereotype foreman, Fall River (Mass.)* Herald-News.

HELP ELIMINATE STATIC DRAG

An increasing number of pressrooms are using infrared heat lamps attached to some part of the press frame or feeder to overcome the static drag that sometimes develops in sheets going through.

The illustration shows two of these lamps attached to the frame of a 5-0 two-color Harris offset press at the Parthenon Press, Nashville, Tenn., where the sheets have not been leaving the feed section properly. Register is involved very much since the sheet going through is

Infrared heat lamps help reduce static drag.

receiving the final two of four colors.

The use of more than one of these lamps to produce the necessary heat buildup at this point is shown. These lamps can be attached to any part of the frame of a press or feeder section and can be plugged into any 120 V. outlet.

One or more of these lamps are most frequently attached to the rear frame of the feed section with heat directed toward the top sheets of the stock pile in the feeder. They can even be arranged to heat condition stock before it is put in the press feeder. They seem to work equally well against static drag on both letterpress and offset presses.—*P. R. Russell, staff correspondent.*

COLOR CODE HELPS FIND GALLEYS

Even with galley tags attached, it is sometimes time consuming to look for type after it has been cast and stored on a galley for makeup. By color coding the last digit of the order number, job ticket, and galley tag, the particular galley can be found very quickly.

For example, the last digit (1) of order No. 29021 shows that this job can be identified with a yellow tag throughout the composing room. Nine other colors are used for the remaining nine digits.

When looking for the galley, the compositor notes the last digit of the order, determines the corresponding color, and proceeds to pick job No. 29021 from only the yellow tags found in the galley rack. By using this method, the compositor has reduced his searching considerably.—*Ronald A. Zimmer, Wm. J. Keller, Inc., Buffalo, N. Y.*

PROOFS WITHOUT INKING

In our plant there isn't much call for inking up our proof press. We find it quicker to pull a proof by lifting the ink rollers and placing a piece of carbon paper over the type. This gives a clear, rough proof and saves washups, especially when you have a four or five roller press. —*Bernard Press, Foreman, Pickwick Publishing Co., Park Ridge, Ill. Courtesy Kimberly-Clark.*

Craftsmen Honor Mac Sinclair — Former editor of PRINTING PRODUCTION, MacD. Sinclair (center), received the Cleveland Craftsmen's Club highest award last month for his personal contributions to the organization. Sinclair, now serving on the staff as consulting editor, was presented a photoengraved copper plaque by Edward T. Samuel (right), past treasurer of the International Craftsmen's Assn. Cleveland Club president, Tony Annotico, looks on.

Atlanta Prepares For Craftsmen

A large contingent of printers is expected to march on Atlanta, Ga., in August to participate in the 41st convention of the International Craftsmen's Assn. Delegates in attendance will represent the Association's 17,000 membership—largest in the Graphic Arts. Convention dates are Aug. 7-10 with headquarters at the Atlanta Biltmore Hotel.

Chairman of the 1960 convention is Warren Taylor, general manager of Williamson Southern, Inc. Taylor has served Atlanta Craftsmen as first and second vice president and in other capacities.

The technical program includes a session on creative and mechanical art and typography, as well as clinics on letterpress and lithographic prepress and press operations and materials. In addition, a clinic is to be held on cutting, trimming, folding, stitching and die cutting. Sessions on flexography and rotogravure will also be featured.

The special subjects clinic includes subjects such as plant layout, work simplification, safety, quality control, materials handling and cost reduction.

An added attraction will be the awarding of a three day, expense paid vacation for two in Nassau, Bahama Islands. The winner will be selected from preregistrations received with a $20 minimum fee and postmarked July 22 or earlier.

For further information, write to convention registration chairman, Ernest H. DeLong, 1100 Murphy Ave. S.W., Atlanta 10, Ga.

WHAT'S AHEAD FOR THE READER

If you are interested in how much illumination you should be providing in various areas of your plant, you will want to read the July issue story on *Recommended Lighting for Graphic Arts Plants*. One of the highlights of the article, prepared by a lighting engineer, is a list which includes the exact foot-candles needed in printing, composition, photoengraving and electrotyping plants. This will be a valuable story you will want for your files.

The nation's top Graphic Arts scientists and technicians will meet this month in Washington, and our editors will be on hand to report any significant findings which affect the average printer.

Our editors will also be in Miami to cover the year's biggest newspaper mechanical conference. Developments of interest to production executives in the newspaper field will be included in the July issue.

Also, look for features next month on new plants in the printing industry, ideas to save you production time, a report on overseas developments, new products announced for the Graphic Arts, and the concluding installment of the schedule control series.

PIA Cancels Production Meet

Printing Industry of America has cancelled its scheduled production conference which was to be held in Chicago on June 16-17. The conference has been rescheduled for March 1961.

In its place this year, PIA will hold a two-day production forum (Oct. 28-29) at the conclusion of its annual convention sessions to be held at Hotel Sheraton Park, Washing, D. C. One day of the forum will be devoted to production management subjects; the second day will consist of a technical forum.

The Washington production meeting will be directly related to the equipment exhibition (see PRINTING PRODUCTION, May 1960, page 50) which forms a major part of this year's PIA convention.

The show is intended to provide an opportunity to see new equipment in operation.

Famed Joseph Mertle Dies

Joseph S. Mertle, internationally known Graphic Arts photo-technologist and librarian, died in Oshkosh, Wis. on April 30 at the age of 61.

Mr. Mertle started his career as an apprentice photoengraver in Oshkosh in 1913. In 1923 he became technical director for Cramer Dry Plate Co. with which company he was associated for 20 years. In 1937 he was appointed technical director for the International Photoengravers Union.

In later years, Mr. Mertle's chief activity centered around expansion of his famous Graphic Arts library. In December 1958 the 6000 volume library and many precious printed examples pertaining to progress in the industry were placed in Minnesota Mining & Mfg. Co.'s new Graphic Arts Research Center.

Mr. Mertle was noted for his contributions to Graphic Arts literature. He and Gordon L. Monsen coauthored *Photomechanics and Printing*, published in 1957. Previously, Mr. Mertle and Louis Flader coauthored the book, *Modern Photoengraving*.

At one time, Mr. Mertle collaborated with Ellis Bassist in introducing dot etching and deep-etch platemaking in the lithographic field. Another of Mertle's accomplishments was his share in developing the Fruwirth-Mertle theory of halftone dot formation.

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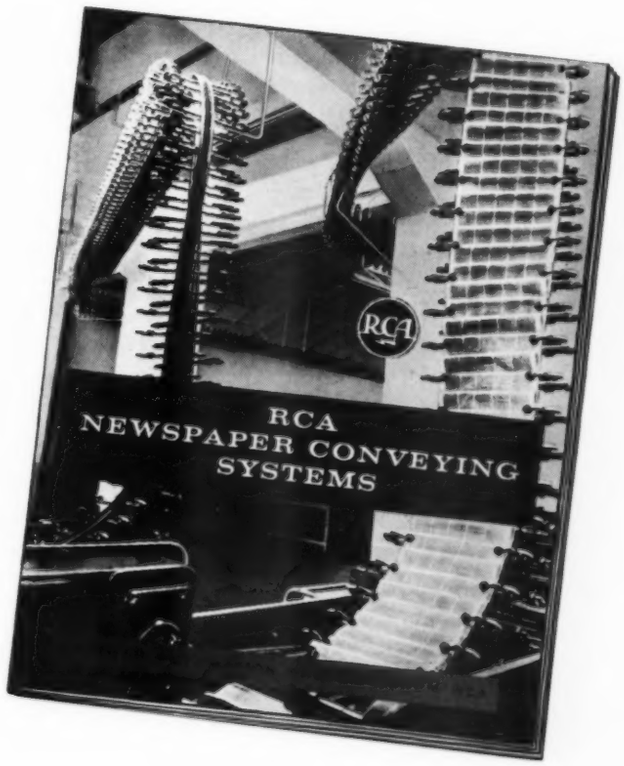

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● *Litho men at Boston convention debate affairs of their association; elect Rae Goss of Inland Lithograph Co., Chicago, to presidency.*

By EDWARD H. OWEN
Editor

NALC TAKES STEPS FOR

Strong Litho Organization

A MOVE to strengthen its position on a national level was made last month by the National Assn. of Litho Clubs. It came with the approval of an increase in per capita tax to be paid by the 4500 member organization to further the work of the parent association.

This action was taken at the 15th NALC convention held at Hotel Statler, Boston, on May 19-21, and successfully culminated a year's effort by national officers to bring the association into a position of providing more help for the local lithographer member.

Convention delegates also elevated Rae H. Goss to the post of national president, succeeding Fred A. Fowler of Washington, D. C. Goss is sales vice president of the Commercial Div. of Inland Lithograph Co., Chicago. (Other new officers are pictured on this page.)

The Boston convention also stressed education in the litho industry by sponsoring an essay contest among high school students in the Bay State city. It was won by Steven Myles Aronson, a 16 year old junior of Boston Latin School. An all-day technical clinic capped the convention program at which shop problems were discussed by an authoritative group, each member representing a specialized area in lithographic operations. Activities for the 350 lithographers and their ladies in attendance were handled by a local committee under the direction of James Fraggos, general chairman.

The 1961 convention will be held in Dayton, O., on May 4-6. Other convention cities announced were Miami in 1962 and Dallas in 1963.

Deliberations by the various club delegations in Boston left little doubt that the NALC membership is without a voice in national affairs of the association. No fewer than 13 separate resolutions from clubs throughout the United States were presented for consideration—most of these directly linked with the dues increase question.

New officers of the National Assn. of Litho Clubs are, left to right: John Murphy, Detroit, first vice president; Fred A. Fowler, Washington, D.C., retiring president; Rae Goss, Chicago, president; James Fraggos, Boston, second vice president; Glenn Smith, Dallas, treasurer, and Edward Harwood, Chicago, executive secretary.

Litho Men Debate Increase

Spokesmen for the various clubs exercised many forms of parliamentary procedure and in some cases exceeded them until corrected by the appointed parliamentarian, Herb L. Borden, president, Hub Offset Corp., Boston. At times the issues became entangled in procedure and interpretation of the motion. The presiding officer, President Fowler, patiently allowed delegates time to express themselves before moving for each vote.

There were some differences of opinion on the future course of the NALC and a minority dissent about present activities on the national level. But the final vote on the crucial resolution presented by the Chicago Club, calling for a dues increase, showed that a wide majority of local clubs are in favor of strengthening the association.

Passage of the resolution means that local clubs will now pay $3 out of each member's dues to the national association. Moves to acquire a full time national secretary or to hire a professional organization to handle NALC business were sent to committee. Defeat also came to a proposal by Printing Industry of America to have NALC establish its headquarters in the PIA building in Washington, D. C.

Newly-elected NALC president,

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Rae Goss, said that the dues increase voted by the convention would be put to good use for the benefit of the individual member. He condemned having national officers ". . . spend money out of their pockets to carry out their work." He asked those who opposed the increase to remind their clubs of the real need for the additional funds.

The rapidly growing national association now consists of 34 local clubs. Formation of new clubs in Kansas City, San Antonio, Little Rock and Ann Arbor were announced at the convention. Other clubs are also being formed.

The need for finding and then educating people for positions in the lithographic industry was the subject of an address to the NALC convention by Archie A. Macready. He is secretary and executive director of Chicago Lithographers Assn.

According to a government study, he said that men between 35 and 45 years of age are ". . . the real essential people in the litho field . . ." because they primarily are comprised of owners and top managers. He stressed the need for training people for these positions in the next 10 years and warned the lithographers to do something about it now before ". . . the so-called glamour industries steal them from us."

Macready added that over half of the increase in the labor force in the next 10 years will be people under 25 years of age. There will be fewer between 35 and 45 and more people in the work force between the ages of 45 and 54.

(*Continued on Page* 95)

Camera Views of the 15th Convention of NALC Held in Boston

(All names read from left to right)

1—Some of the participants in the all-day technical session. Seated: Raymond Faulkner, Buck Printing Co., Boston; John Lupo, Di-Noc Chemical Arts Co.; Dr. Domenic Bernardi, Interchemical Corporation; James Trousdale, Anaconda Aluminum, and William Chopin, Kimberly-Clark Corp. Standing: Herb Borden, Hub Offset Co., Boston; Al Materazzi, Litho-Kem-Ko; and John Grady, Concord Lithograph Co., Concord, N. H.

2—Mrs. John Norton of Boston extends welcome to Glenn Smith of Dallas.

3—Bell ringer William Webber, head of Lithographic Technical Foundation, New York, poses with Bill Bodd of Houston, John Oancea of Canton, O., and colonial page boy, John Paul Russo.

4—Selling Dallas as the 1963 convention city to Twin Cities Litho Club men were: Ben M. Farley, Bennett Printing Co., Dallas; Herman C. Goebel, Larry Grunditz and Clifford J. Goebel, all of Brown & Bigelow, St. Paul, and Truett A. Cole, Anchor Printing & Lithographic Co., Fort Worth.

5—Other members of the technical panel were: Al Reynolds, S. D. Warren Co.; James F. Baldotti, Hub Offset Co., and Merrill N. Friend, Sumner Williams Co., all of Boston.

6—Prominent in activities of the Boston convention were: Archie A. Macready, Chicago Lithographers Assn.; Russ Waddell, Azoplate Corporation, New York; Ralph Lein and Willard Greenwood, Forbes Litho Mfg. Co., Chelsea, Mass; John White, Litco Offset Co., Boston.

FRONT PAGE STORY

Corona, N.Y. - In these days of increased costs of newspaper printing production, mechanical superintendents and production heads of stereotype, composing and photoengraving departments as well as press rooms, are unanimously agreed: The only bargain today is quality.

Quality can only be measured in terms of performance. Day after day, dependable, proved performance.

A glance at Page 1 of the Eastern Catalog No.24 tells most of the story. The rest of the story lies in expert processing of orders without delay, plus the consistent economy of doing business with Eastern.

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Circle 120 on Reader Service Card

Strong Litho Organization

(Continued from Page 92)

The job of training, according to Macready, will fall to those already in the industry. He urged putting the older employee to work on the basic problem of education because these people have ". . . a veritable fountain of knowledge and skill."

The speaker also urged management to conduct recruiting programs for the litho industry ". . . that will not only par those of the other manufacturing companies, but far exceed them. They must go into the secondary schools before these boys and girls are thinking about graduation, and incidentally, have long before decided where they are going."

In closing, Macready described recruiting as the most basic form of education. He said: "You educate the people you want to attract to your business, and you are going to have a much easier time getting them and holding them. You can't sit back and wait for them."

Three-color Process Fades

An all-day discussion of shop problems again proved to be a popular feature of the NALC convention. More than a dozen experts in various areas of litho operations made up a panel which provided the answers to questions from the audience.

The once popular process of producing three color printing for short-run work was revived at the meeting when someone inquired about its recent progress. It was a trend three or four years ago, thought Al Richards, Recording & Statistical Corp., Boston, but the results were not too successful.

Merrill Friend, Sumner Williams Co., Boston, added that there doesn't seem to be much of it being done today. It was designed by Eastman Kodak Co. to do a low cost job only from 35 mm. transparencies. There was difficulty obtaining an exact facsimile, he said, and it required close control in the pressroom. Richards said that they had difficulty getting pressmen to run a full, strong color.

John Centa of Du Pont remarked that a company probably could produce three color printing well if it specialized in this kind of work. It is difficult, he commented, to only do it occasionally.

Magnetic Ink Printing Advice

Another member of the audience asked about getting into the field of magnetic ink printing. Panel members advised that printing of checks and other work with these inks offer good business opportunities, but cautioned that they also require close tolerances. Another requirement is close cooperation between pressman and inkmaker.

One member of the panel said magnetic ink printing ". . . is not as simple as printing color." Expert care of the ink by the pressman is required and litho pressmen will find that the ink particles are difficult to disperse.

A need for a litho ink which possesses unlimited shelf life was expressed by one NALC member. Frank Marra, General Printing Ink Co., said there is no such thing as a universal ink. The inkmaker can make adjustments in the ink to provide for any shelf life.

Marra added: "If an ink is not properly formulated for your press, you should get in touch with your inkmaker." Today's requirements, he added, almost call for tailor made inks to meet conditions of the particular press and shop.

One question which virtually stumped the panel concerned reasons why a process red changes color in the drying oven on a web offset press. The best answer seemed to be that it would require analyzing the ink to pinpoint the cause. Other theories included that the pigment in the ink might be sensitive to heat which would cause it to burn out or change color. Another was that it may be caused by improper drying.

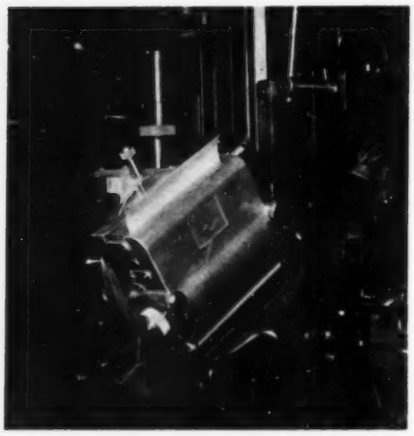
"I'd like to compliment you on your workmanship . . . When are you going to give me the opportunity?"

EQUIPMENT AND SUPPLIES

You may easily and quickly obtain additional information on the new equipment, supplies and services mentioned on these pages by completing the special Reader Service Card conveniently found in this issue.

AUTOMATIC LINE-O-PROOF DEVICE PROVES EACH SLUG AFTER EJECTION

The Line-O-Proof attachment for Intertypes and Linotypes proves each slug automatically immediately after the slug



has been delivered to the galley. The device is mounted immediately above the slug galley. It is operated mechanically by the action of the first elevator slide.

In operation, the slug is inked by a roller while still in the mold. The inked slug slides into the slug galley in normal position after being trimmed by the side knives. It is held firmly and directly beneath the platen of the proofing device by the jogger arm. The platen then is lowered and prints the slug line on the proof paper.

Line-O-Proof Assoc. announces that the proofing device may be used either on a TTS or manually operated linecasting machine. Proofs in measures up to 30 picas wide and type faces up to and including 36 pt. may be obtained.

Up to three proofs may be taken simultaneously, depending upon the type of paper roll installed. The second and third are carbon copies. A selection of four line spacings is provided depending on the size type and slug body being cast. Circle No. 258 on Reader Service Card.

KALLE FLATBED OFFSET PRESS OFFERED IN TWO LARGER MODELS

The semi-automatic Kalle flatbed offset press has been made available in two larger models of 20 in. by 28 in. and 22 in. by 30 in. sheet sizes, according to Amsterdam Continental Types & Graphic Equipment, Inc., U. S. distributor.

Designed by Kalle Works of West Germany, the press offers continuous adjustable speeds from 320 to 850 i.p.h. It is recommended that the press be used for making nameplates, decalcomanias, printed electrical circuits and other metal decorating as well as for offset proofing and short run color work.

The press includes a refrigerated plate bed for automatic dampening by condensation. Where materials with highly finished surfaces are encountered, a heating element within the cylinder is said to eliminate excess moisture and insure ink coverage.

Other Kalle features include: Register control means; three form roller inking system, and a printing table that can be raised or lowered to accommodate materials of varying thicknesses.

The press is also available in 13 in. by 18 in. and 16 in. by 20 in. sizes. Circle No. 280 on Reader Service Card.

FLEXO PRESSES FOR TANDEM OPERATION WITH WEBFED CONVERTING EQUIPMENT

The Series 500 flexographic presses for tandem operation with webfed converting machinery has been developed by Potdevin Machine Co. The press is recommended for use with bag making equipment and produces four color printing.

The Series 500 presses feature continuous inking, non-splash fountains, and air operated controls and throw-offs. Calibrated gauges at color stations regulate air pressure for metering ink. Color banks are positioned to permit unlimited drying between impressions made at the first and second color banks, which permits printing color on color. When linked to bag making equipment, the pneumatically operated throw-offs of the press engages the impression and transfer cylinders when bag making starts. The press is similarly disengaged.

Maximum operating speed of the press is 1100 f.p.m. Presses are built for maximum web widths of 21, 26, 32, 36, 38, and 42 in. Circumference of printing plates range from 9.42 in. to 28.58 in. Presses are equipped with standard 10 pitch gearing; other pitch systems are available. Circle No. 275 on Reader Service Card.

ADJUSTABLE SPEED DRIVE PROVIDES CONTROL FOR ETCHING MACHINE

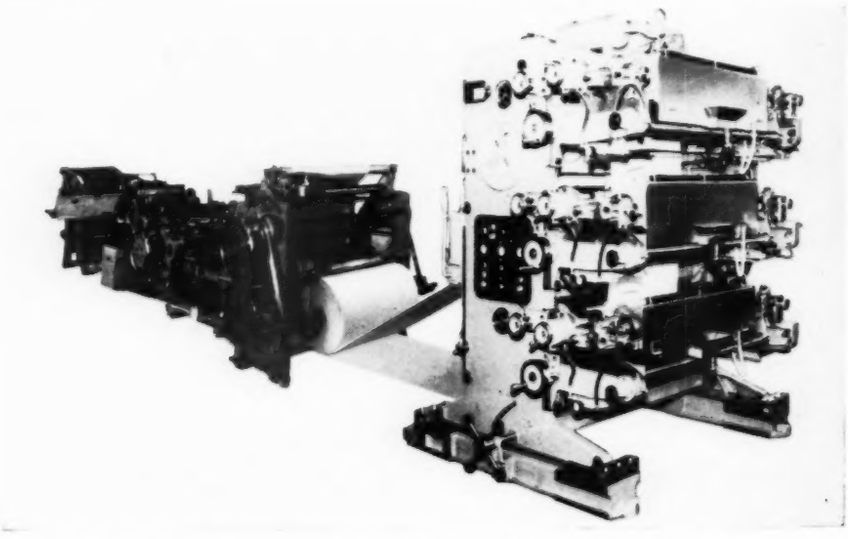
A mechanical adjustable speed drive for controlling the speed of paddles inside Master etching machines has been announced by General Electric Co. (The function of the paddles is to agitate the acid bath and splash it uniformly against the surface of the plate being etched.)

It is stated that the Polydyne Drive, as the control is known, allows users of etching equipment to increase speed from 70 to 350 r.p.m. in a fraction of a second. Another advantage claimed for the drive is that it permits the operation of the paddles at extra low speeds during the initial acid formula mixing operation. Circle No. 284 on Reader Service Card.

PORTABLE LEAD AND SLUG RACKS PROVIDE EXTRA WORKTOPS

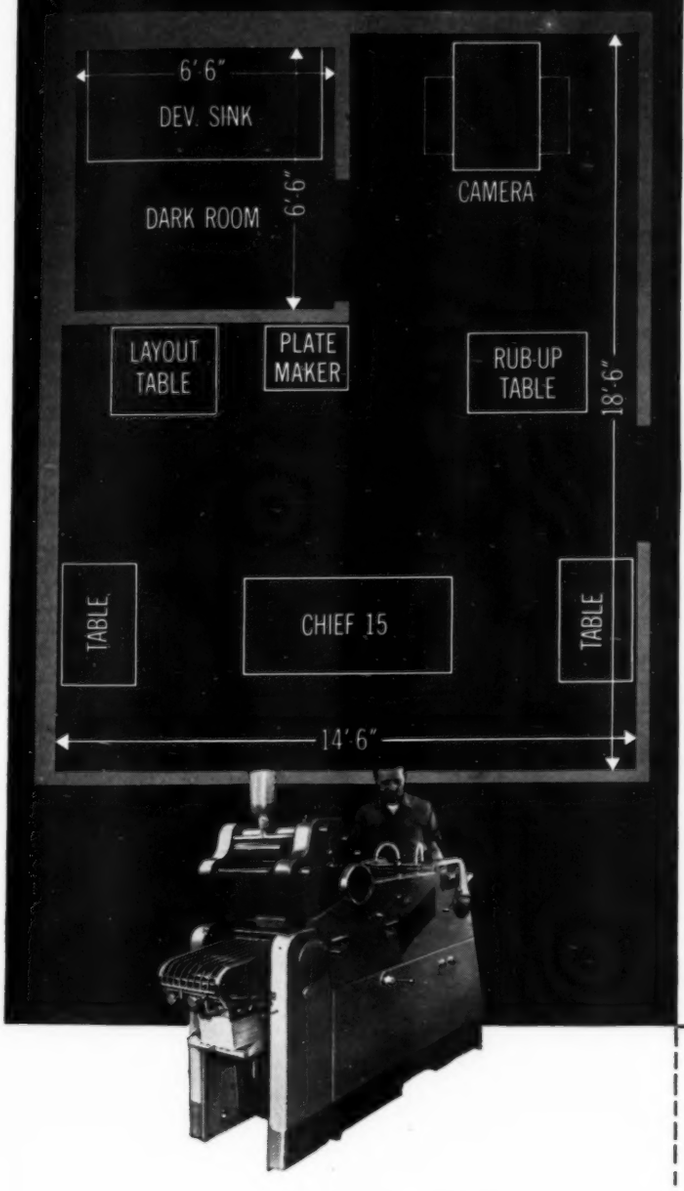
In newspaper ad composing departments it is frequently necessary to engage extra compositors when advertising volume is increased. In some plants, there are not sufficient worktops available to accommodate the temporary compositors.

To alleviate such condition, Warren



A new line of flexographic presses designed for tandem operation with webfed converting equipment has been developed by Potdevin Machine Co. The press is recommended for use in bag making.

This profitable offset department can be YOURS for less than a dollar an hour!



For less than a dollar per *working hour*, you can purchase a complete ATF offset department, including: press, camera, darkroom sink, negative layout table, platemaker, and utility table. If you have some seldom-used equipment to trade in, chances are you will need little or no down payment.

Or you can lease the complete "package"—or any part of it—without trading in any equipment or making a down payment.

Either way, you get brand new equipment—and only what you need—on the easiest terms. You can pay as you go and make a profit as well.

Heart of this plan is the ATF Chief 15, the small press with the big press features...the press which has been chosen by over 1500 professional printers. You can see this press and the related "package" equipment in operation at your nearest ATF Branch Office; or your ATF Representative will supply full details, including a folder, "How to Set Up for Offset," which outlines various plans and choices of equipment. If you prefer, use the coupon below.

ATF

ATF Type Faces used in this advertisement: heads, Craw Clarendon; text, Bodoni Book; coupon, News Gothic Condensed.

American Type Founders

American Type Founders, Dept. PP
200 Elmora Avenue, Elizabeth, N. J.

I'm interested in your "Offset Package Plans" on a ☐ purchase ☐ lease basis.

Name_____ Title_____

Company_____

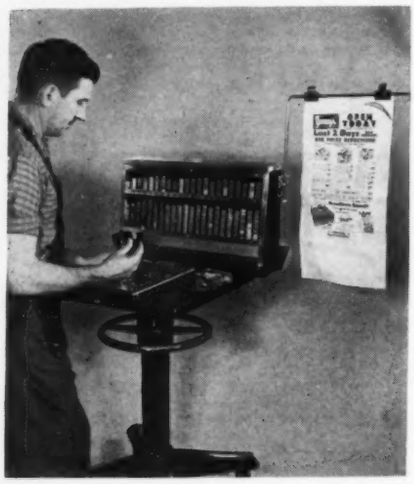
Street and Number_____

City_____ Zone_____ State_____

(If you have trade-in equipment, list descriptions, models, serial numbers)

For More Information Circle 10 on Reader Service Card

Stremming and Paul Anthony have developed the Anstrem portable lead and slug rack. In use, the rack may be clamped on a page truck as shown in the illus-



tration, or it may be set on an available makeup or imposing table.

The portable rack is 24 in. wide by 15 in. high and measures 5 in. front to back at the base. It is constructed from wood with aluminum trim. The one piece handles and clamps are made of heavy-gauge steel.

When fully loaded, the rack weighs 90 lbs. Graduated compartments are provided for leads and slugs in measures from 4 to 23 picas. Sponsors state the rack can be attached to a page makeup truck in 10 sec. An adjustable bracket to hold ungainly size newspaper ad copy in convenient position is available. Circle No. 256 on Reader Service Card.

UNIT APPLIES 30,000 LABELS PER HR. FOR ADDRESSING PRODUCTION

A unit that will reportedly apply 30,000 preaddressed labels per hour has been announced by Cheshire, Incorporated. The Model SL, as the unit is known, handles roll strip, continuous pack form and tape strip labels and stencils. Printed pieces in sizes 9 in. by 12 in. or smaller, and which measure ¾ in. thick, can be labelled by the machine. It is reported that the unit may be adjusted to label larger printed pieces.

One feature of the labelling machine is a photoelectrically controlled throw-out which is said to prevent lost labels. Zone, club and singles separations can be made automatically on the variable speed conveyor.

The hopper feeder is counter balanced for vibration free operation. A reciprocating action feeding mechanism reportedly enables pieces to be fed at the same speeds as machine rollers, preventing jam-ups. Pieces may be added without stopping the machine. Circle No. 277 on Reader Service Card.

DOUBLE-FACED, SELF-ADHESIVE STOCK

A double-faced, self-adhesive mounting stock has been developed by Morgan Adhesives Co. The product, which comes sandwiched between two backing papers, may be cut to fit the area where it is to be used. Reportedly, the stock will not creep and also will adhere to horizontal, vertical, smooth and porous surfaces. It is claimed that the adhesive may be used for holding lightweight metal, vinyls, plastics and other textured materials. Circle No. 252 on Reader Service Card.

WEB OFFSET PERFECTING PRESS DEVELOPED FOR SMALL WEEKLIES

A Thatcher web offset perfecting newspaper press, essentially designed for small weeklies, has been marketed by Duolith Presses, Inc. The design of the press is one of unit construction, with the roll stands, printing units and folders being built on separate bases. Each unit requires a 6 ft. by 7 ft. floor space.

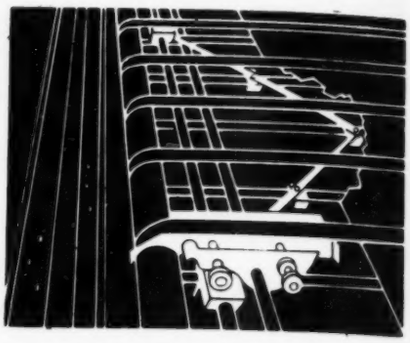
Maximum print-and-fold production speed of the press is reported to be 20,000 per hr. Features of the press include: Automatic roll brake and tension control; 2 in. thick side frames and gear drive; solid plate, blanket and impression cylinders; pre-registration mechanism and a blanket fastening mechanism which utilizes minimum size blankets.

An additional feature is a variable speed electronic control motor which permits operation from creeping pace to capacity. Push buttons are included for inch forward, inch reverse, and stop.

It is claimed that the Thatcher press makes effective use of hard aluminum alloy which reduces weight and provides a corrosion free surface. No press pit is necessary. Circle No. 276 on Reader Service Card.

UNIT ALLOWS UNIFORM ADJUSTMENT OF MULTILITH 1250 FEED TAPES

The Adjust-O-Tape unit for Model 1250 Multilith offset presses has been an-



nounced by Kam-De Products Co. Reportedly, the unit enables the operator to set all five feed tapes uniformly for any desired width. Changes in feeding widths may be made from full size to a minimum of 2¾ in.

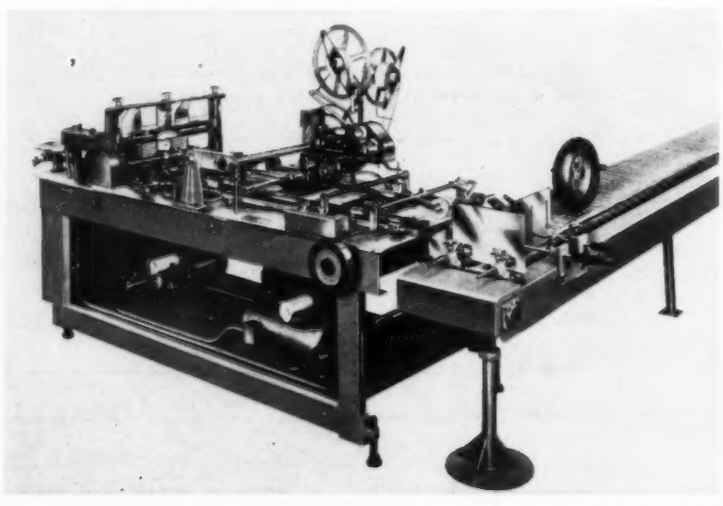
It is reported that the unit eliminates hazards in the changing operation because the operator makes the adjustments by moving only the left side guide. Adjust-O-Tape is attached to the paper side guides. Circle No. 264 on Reader Service Card.

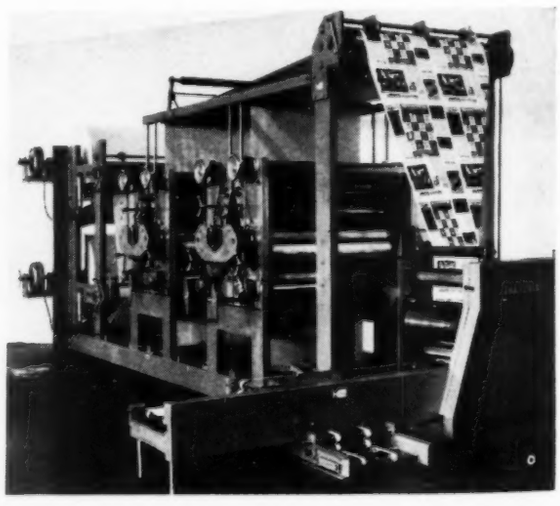
SAW BLADE FOR MOHR LINO-SAWS

A thin saw blade has been specially developed for use on Mohr Lino-Saws by Gay-Lee Co. The metal saw blade is said to cut clean, reduce noise of operation and provide fast operation. Circle No. 260 on Reader Service Card.

CHALLENGE POWER PAPER DRILLS WITH TOE-TIP CONTROL PEDAL

Two new power paper drills are offered by Challenge Machinery Co. One feature of the new models, the JH and CH, is the toe-tip control pedal. Pressure on the





The Cheshire unit (left) applies 30,000 labels per hr.; right is the Thatcher web offset perfecting press specially designed for small weeklies.

Build Job Shop Profits! In Pressrooms...In Binderies...

MGD's Full Line of Equipment Makes It Possible

Your future efficiency and profits depend on the new equipment acquired in the next few years. Careful investment planning for job equipment today will really pay off over the long run...and here's where Miehle-Goss-Dexter can give you valuable help.

With a complete line of profit-building machines for job-commercial work...ranging from the famous Miehle Vertical and small offset presses to the efficient low-cost Lawson cutters and multiple-hole drills to Dexter's new small high speed folders and automatic binding equipment...MGD can give you *unbiased* assistance in planning both pressroom and bindery.

MGD specialists will be glad to help you select the best machines for your special needs...to make certain that presses and bindery equipment are properly related in size and productive capacity...to establish a coordinated long range investment plan for your profitable growth.

Consult your MGD representative soon.

MIEHLE-GOSS-DEXTER, INC.
Chicago 8, Illinois

For More Information Circle 118 on Reader Service Card

foot control pedal causes the drilling head to be lowered; releasing the pressure allows it to return to its upward position. The machine may also be used for cornering, slitting and slotting operations. Circle No. 272 on Reader Service Card.

H&W DEVELOPS NEW TAG STOCK

A tag stock which reportedly resists folding, bending and splitting has been developed by Hollingsworth & Whitney Div., Scott Paper Co. It is recommended that the stock be used for spirit duplicating operations such as those required for piecework job tickets. The stock is marketed in rolls and is available in special sizes. Distributor of the tag stock is Dennison Manufacturing Co. Circle No. 253 on Reader Service Card.

EMBOSSER AVAILABLE AS ATTACHMENT FOR PRESSES, FOLDERS OR REWINDERS

An embosser which may be operated as an attachment or as a separate installation has been made available by Paper Converting Machine Co. The unit may be attached to a rewinder, folder or printing press.

Among the features of the embosser are matched, air loaded steel rolls. Reportedly, the rolls provide adjustable nip control which allows for positive adjustment. Sponsor claims that in the event rolls are separated, they can be returned to their original operating position.

Other features of the unit include: Oil lubricated herringbone gears, spherical roller bearings and automatic cleaning and lubricating of the embosser rolls. Circle No. 279 on Reader Service Card.

SPHEREKOTE TYMPAN PAPER PACKAGED FOR HEIDELBERG 10 x 15 PLATEN PRESS

It has been announced that Spherekote tympan paper has been prepared in special packages for use on the Heidelberg 10 in. by 15 in. platen press by Minnesota Mining and Manufacturing Co. Two packs, known as the Ready Platen Packs, are available. One contains 17C type material which is recommended for most commercial work; the other, 15D Spherekote for rough work such as perforating and tagging.

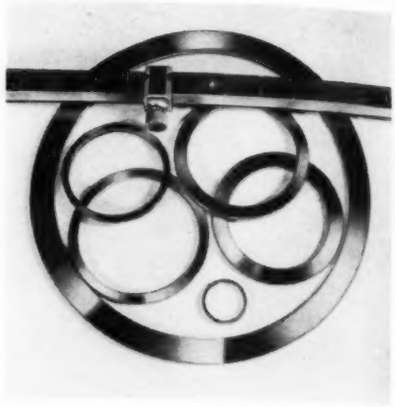
Each package contains 50 scored-to-size sheets. Among the advantages claimed for the paper are: Elimination of scuffing by the gripper arm, quick backups without smudging; no danger of softening due to washing with solvents, and elimination of punching on numbering jobs. Circle No. 268 on Reader Service Card.

SIMCO'S BLOWER-IONIZER DEVICE ELIMINATES STATIC AT LONG RANGE

A long range static eliminator, Aerostat, recommended for use during fly delivery on presses has been announced by Simco Company. The device incorporates a static neutralizer head in the air outlet of a centrifugal blower and is claimed to neutralize static on materials passing through an air stream at distances as far as 4 ft.

In the Graphic Arts field, the Aerostat is reportedly useful at the delivery end of presses equipped with fly delivery when running Bible stock, plastic sheets or other special stocks which can become charged by air friction. Aerostats placed on each side of the delivery pile to blow over the sheets as they settle onto the pile, reportedly assure correct jogging. It is said that Aerostats are also useful at the transfer cylinders of printing presses where static is likely to occur.

The unit is available in lengths of 10 in. and 20 in. For discharging large parts or wide materials, the units may be butted together to create a continuous neutralizing field of any width extending out from the ionizers to a depth of field of 4 ft. Circle No. 278 on Reader Service Card.

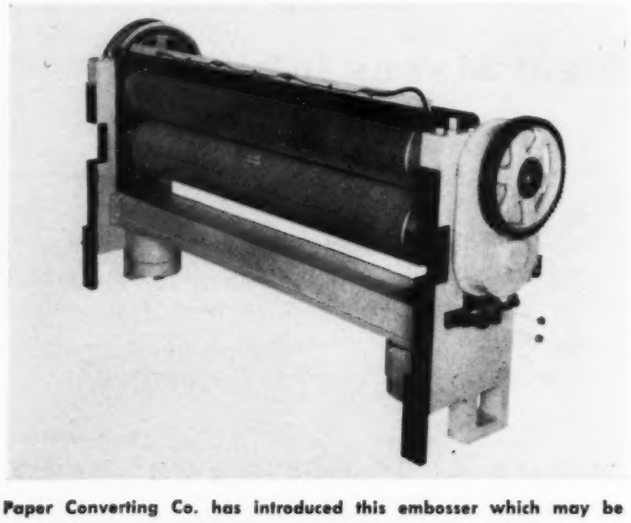


Carlson Modifies Plate Finisher—Several new features have been incorporated in the plate finisher manufactured by Chesley F. Carlson Co. Innovations include the Big Circle calibrated arm, the Perfect Circle easy-spin pin, and the on-the-dot locating glass. Reportedly, the unit may be used to produce vertical edges, position register holes in color plates and cut circles up to 108 picas. Circle No. 270 on Reader Service Card.

DEVELOP HOT MELT ADHESIVES FOR FOIL AND POLYETHYLENE COATINGS

Two cord-like, hot melt adhesives have been added to the Thermogrip adhesive line of United Shoe Machinery Corp. One, Thermogrip 308, is recommended for bonding boards coated with double polyethylene—paper milk carton and fold-

(*Continued on Page* 106)



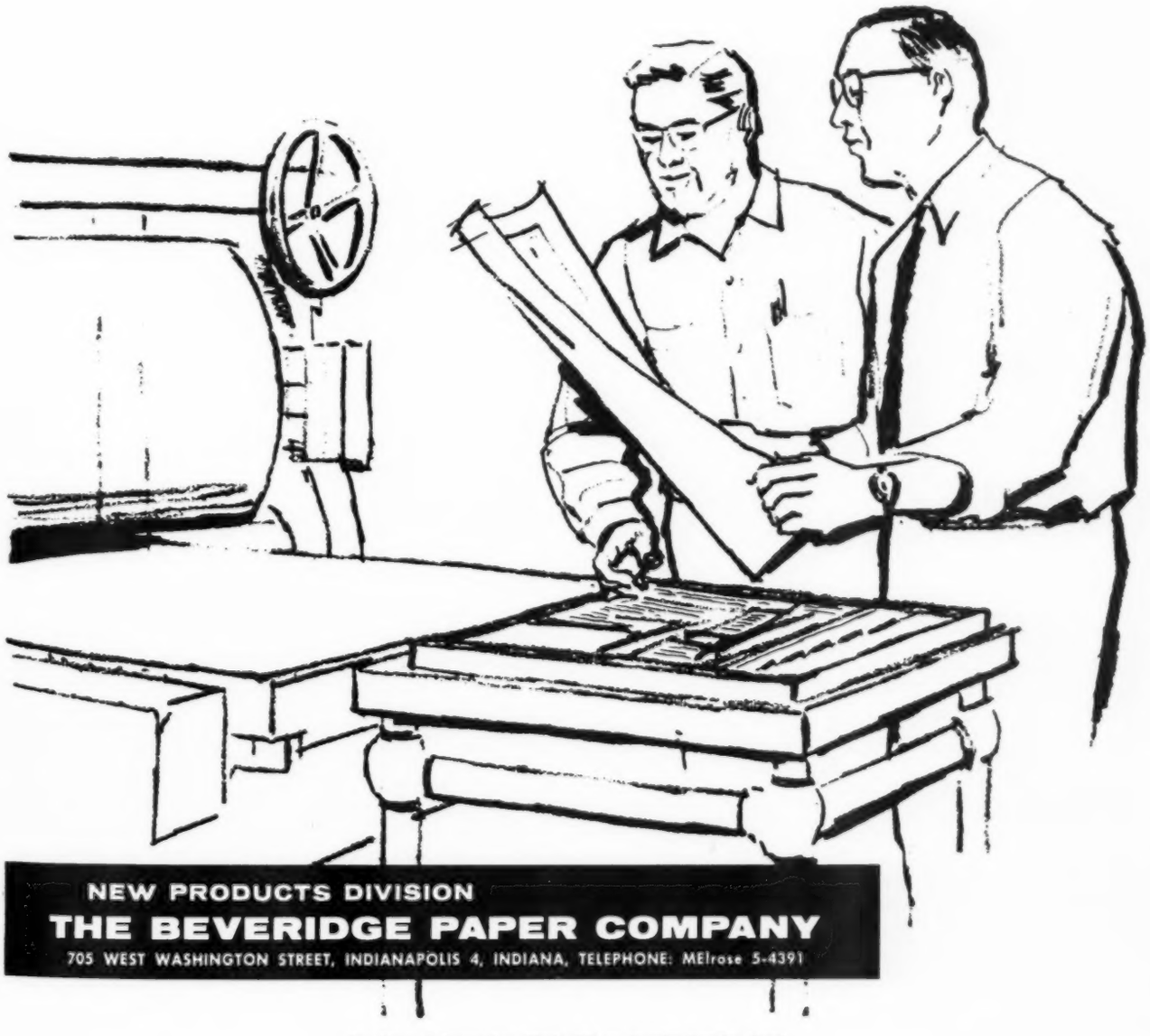
Paper Converting Co. has introduced this embosser which may be used either as an attachment on rewinders, presses or folders, or as a separate installation.

The Areostat static eliminator is said to be useful during fly delivery on presses when running special material such as Bible stock and plastic sheets which become charged by friction.

If You're Ready for AUTO-PACK One Piece Packless Mats They're Ready for You!

Every month more and more newspapers are switching to Auto-Packs, high quality one piece packless mats. Some of these plants were already geared to the use of Auto-Packs. Others made the changes necessary to enable them to handle these mats that are over 50% compressible, that require less molding pressure than conventional mats, that retain 0.030 to 0.035 space depth in the plate wherever there's 0.040 depth in the form.

Well seasoned Auto-Pack mats have the best reproduction qualities possible to attain. Their use automatically makes a better printed paper. If you are interested in eliminating hand packing and getting better reproductions, let's get together and find out if your plant is ready for Auto-Packs. The next step is a complete demonstration of their advantages in your plant. Write, wire or phone for complete information, samples or a demonstration.

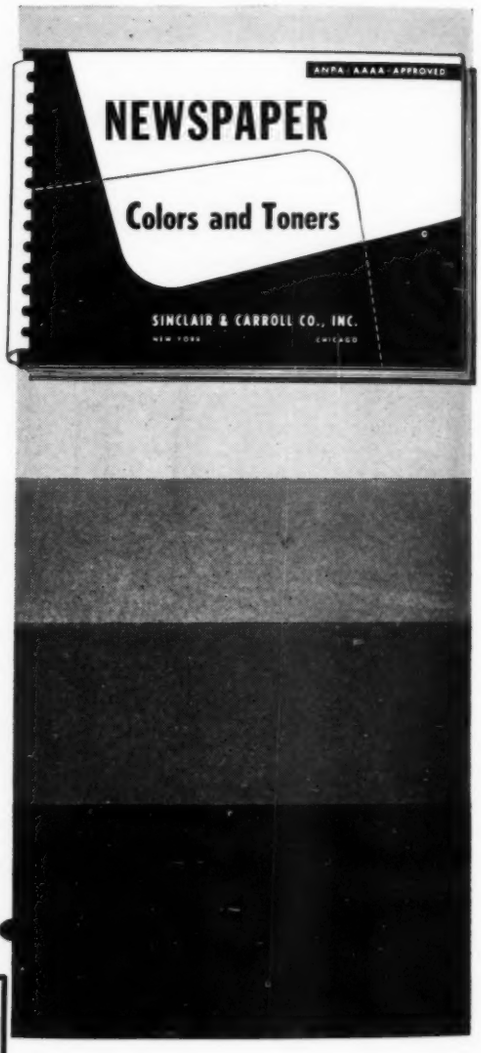


NEW PRODUCTS DIVISION
THE BEVERIDGE PAPER COMPANY
705 WEST WASHINGTON STREET, INDIANAPOLIS 4, INDIANA, TELEPHONE: MElrose 5-4391

For More Information Circle 20 on Reader Service Card

Sinclair and Carroll

AAAA ROP COLORS



Leading Newspapers Rely On Strict Uniformity And Maximum Clarity In Inks To Meet The Demands Of Advertisers

Consistently faithful color reproductions with Sinclair and Carroll Color Book inks have stimulated the demand for ROP color advertising across the nation.

Newspapers that have used our inks for precise color reproduction of their advertisers' products or packages, know they are offering the highest quality, clarity and uniformity in progressives, proofs and printing. This is the reason why today such newspapers are among the top 100 nationally in total ROP Color advertising linage.

We invite you to join our expanding list of highly satisfied users who can rely on S & C Color Book ink.

Sinclair and Carr

591 11th Ave., New York
440 W. Superior St., Chicago

**VISIT US IN BOOTH 98-99
at the JUNE ANPA
MECHANICAL CONFERENCE in MIAMI**

For More Information Circle 162 on Reader Service Card

This postage-paid card is for your convenience in requesting further information on any editorial item or advertisement in this issue of PRINTING PRODUCTION. Circle the number for any item or advertisement. Your request will be promptly sent to the manufacturer for which it is intended.

Card not valid unless complete information is given below

Name_____

Title or Department_____

Company Name_____

Company Address_____

City_____ Zone____ State_____

This card valid up to one month after:

JUNE '60

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Tear out the inquiry card . . .
As you read, circle the product numbers about which you want more information.
Each inquiry receives individual attention by trained Reader Service Department personnel.
Be sure to fill in your title and/or department.

USE THE READER SERVICE CARD FOR MORE INFORMATION. IT'S EFFICIENT, FAST AND EASY.

This postage-paid card is for your convenience in requesting further information on any editorial item or advertisement in this issue of PRINTING PRODUCTION. Circle the number for any item or advertisement. Your request will be promptly sent to the manufacturer for which it is intended.

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FIRST CLASS
PERMIT NO. 2285
CLEVELAND, OHIO

BUSINESS REPLY MAIL

No Postage Stamp Necessary if Mailed in the United States

Printing Production Magazine
1276 West Third Street
Cleveland 13, Ohio

Reader Service Department

FIRST CLASS
PERMIT NO. 2285
CLEVELAND, OHIO

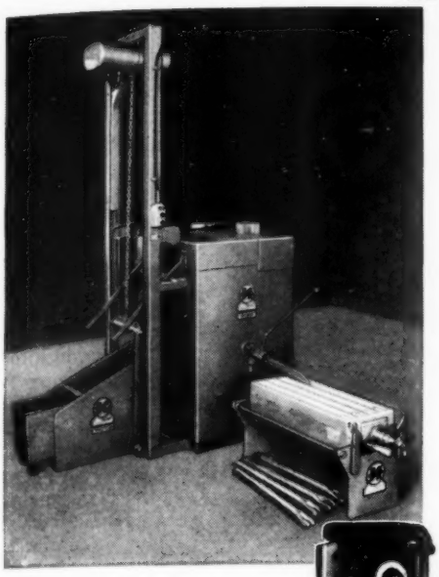
BUSINESS REPLY MAIL

No Postage Stamp Necessary if Mailed in the United States

Printing Production Magazine
1276 West Third Street
Cleveland 13, Ohio

Reader Service Department

are you melting DOLLARS –or remelting metal?



Every time your man stoops to shovel dead metal into that obsolete furnace, you're burning dollars . . . dollars that not only will pay for a modern all-NOLAN installation, but bring a healthy return on your investment to boot! Isn't it time to discover how to cut *your* loading time up to 95% — *your* over-all remelting costs 50%? MAIL COUPON TODAY FOR THE FULL STORY.

TYPICAL ALL-NOLAN SMALL NEWSPAPER INSTALLATIONS
1-TON FURNACE (right) — gas or electric heat, space saving design, big furnace features — at small furnace price. Pictured with accessory NOLAN double-four ingot mold.

NOLAN "MELT-LIFT" (above) — loads 400 pounds of metal in 30 seconds — with just the push of a button!

KEEP ROLLIN'
BUY NOLAN

NOLAN CORPORATION

Department PP-6 Rome, New York

O.K. . . . give us the full story on the NOLAN remelt furnace and "Melt-Lift" automatic loader.

NAME.....

COMPANY.....

ADDRESS.....

.....

For More Information Circle 214 on Reader Service Card

Equipment and Supplies

(Continued from Page 74)

ing box production are included. The second adhesive, 309 and 409, is designed for sealing foil. The foil sealing adhesive is available in ½ in. and 3/16 in. diams. Circle No. 255 on Reader Service Card.

LIGHT TABLE FOR STRIPPING, LAYOUT AND LINEUP OPERATIONS

The Gear-Set 16 light table for layout, stripping, lineup and register work has been introduced by Joseph Gelb Co.

Incorporated in the light table is a mechanically positioned straight edge for horizontal and vertical work. A gear rack with 16 teeth per in. is positioned under the horizontal (front) and vertical (left) straight edge guides. Corresponding table scales in 1/16 in. calibrations appear above the straight edge bars.

Underneath the T-square guide head is a mating segment of the gear rack; this

segment is spring loaded and pivotally mounted. A disengaging knob at the guide head permits using the T-square in the conventional manner for closer calibrations. The knob is set by visual means.

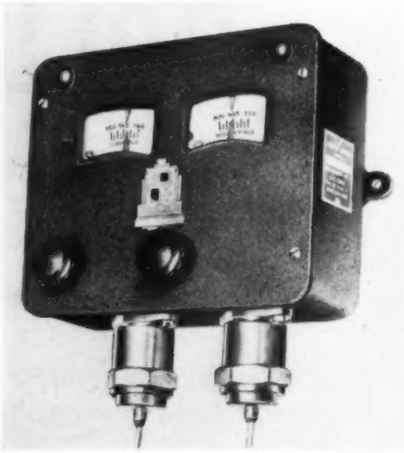
Operation is described thus: Depress the pivoted engaging lever; set the T-square to the desired 1/16 in. increment at the table scales; release the lever. The T-square automatically centers itself within an accuracy of 1/1000 in. of each graduation.

The Gear-Set table is available in a table top model measuring 16 in. by 20 in. and in floor models, 24 in. by 30 in., 30 in. by 40 in., 40 in. by 50 in., 40 in. by 60 in., 52 in. by 72 in., and 60 in. by 80 in. Circle No. 261 on Reader Service Card.

CONTROLS AND INDICATES LINECASTING POT AND MOUTHPIECE TEMPERATURES

A unit which controls and indicates pot and mouthpiece temperatures on linecasting machines has been developed by Partlow Corporation. Known as Cast-A-Trol, the unit is machine mounted and will reportedly control temperatures within an over-all range of 3 to 4 deg. from the pre-selected temperature.

According to the company, the unit operates in this manner:



The instrument is a double indicating thermostatic control with two mercury bulb sensing elements. One element is for the pot; the other, a pencil type element, is for the mouthpiece. Temperatures in each area are reported through a capillary tube to separate thermal elements. Mercury expanding or contracting in one capillary actuates a plunger which activates a Microswitch. The Microswitch controls the electric heating element circuit for the crucible and controls the pointer on the temperature indicating dial for the pot. The mercury in the other bulb and capillary controls the other switch and dial pointer according to the temperature of the mouthpiece.

The instrument may be attached to either Intertype or Linotype machines. It is housed in a single unit and measures 7 in. by 7 in. by 3 in. Circle No. 283 on Reader Service Card.

ALUMINUM FOIL CEILING INSULATION

Aluminum foil reflective ceiling insulation designed for use where there is no permanent ceiling has been announced by Reflectal Corporation, Sub. of Borg-Warner Corp. Known as Alfol, the insulation consists of blankets made of aluminum foil layers. Reportedly, the insulation reflects 97% of all radiant heat and blocks heat by convection. The foil layers form reflective air spaces that lessen heat transmitted by conduction. In addition, Alfol incorporates vapor proof backing for protection against condensation. Circle No. 263 on Reader Service Card.

WEBMASTER D.C. UNIT PRESS DRIVE OPERATES ON A.C. POWER SUPPLY

The d.c. Webmaster drive for high speed presses has been introduced by Cutler-Hammer, Inc. The drive operates on standard a.c. power supply, but converts the supply to direct current for powering the press units from d.c. motors. The Webmaster is a unit drive with each motor having a static power conversion system and regulator.

The drive consists of three major components: a supervisory control; individual unit controls to operate press units and the folder motor, and the unit selector panel which coordinates the operation of the supervisory control and the individual unit controls. Reportedly, the panel interlocks the functions of the press units and folder.

No electron tubes are contained in the static power conversion system which converts the a.c. current to d.c. power. A three phase full wave magnetic amplifier affects the conversion and delivers adjustable d.c. voltage to the armature of the shunt motor.

Other features incorporated in the drive are: press set up lights, dynamic braking, a safety reset signal system, a trip locator system, a shaft holding brake and a method of coordination with the delivery room conveyor. Circle No. 267 on Reader Service Card.

CUTTER ATTACHMENT HELPS ELIMINATE SMUDGES ON NCR PAPER

An attachment for paper cutters which reportedly eliminates smudge marks encountered in cutting stock, such as NCR paper, has been introduced by Index Manufacturers. The unit, known as No-Marx, fits any standard guillotine cutter. It consists of 16 magnetically controlled, anti-pressure blocks and a specially controlled density rubber strip which is fastened to the clamp with double-faced paper tape.

In the illustration, the operator oils the knife to minimize blue edge on NCR, CFB stock.

The unit is recommended for use when cutting felt or embossed finishes, velours, art board, corrugated board or any sheets sensitive to marking. Reportedly, cutting speed of the guillotine remains unchanged by addition of the No-Marx unit. Also,

Alfol aluminum foil insulation reflects 97% of all radiant heat in this printing plant.

ANNOUNCING TRI-Q's *new* TOASTER!

A MAJOR BREAK-THROUGH IN THE ART OF MAT PROCESSING — AND AS EASY AS PREPARING YOUR BREAKFAST TOAST

COMPLETELY AUTOMATIC

Simply drop a mat into the TRI-Q TOASTER. No placement is necessary. From there on, the process is completely automatic. Upon completion of a timer-controlled cycle, the mat is returned to the operator. Timer is easily and quickly adjustable to convert from standard to packless mats.

A new vacuum process holds the mat flat—obtaining *high shrinkage* and at the same time maintaining *maximum molded depth*—while drying mat by means of infra-red heat lamps.

No time loss in converting from packless to standard, and vice versa.

Mats delivered from the TRI-Q TOASTER are completely free of distortion and buckling. Uniform drying prevents "case hardening" of mats and facilitates further processing.

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The Miami Herald

You are cordially invited to see the TRI-Q TOASTER in actual production at THE MIAMI HERALD plant during the ANPA Mechanical Conference in Miami, Florida, June 19-22. See us at Booth #57.

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April 25, 1960

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Trimq, Inc.
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El Monte, California

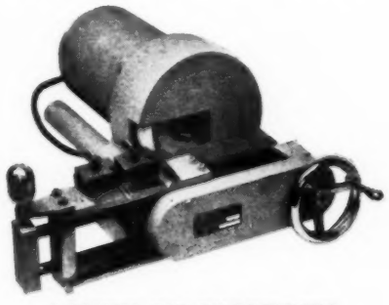
Dear Mr. Sears:

The new theory you have incorporated into your Automatic vacuum pre-dryer does an excellent job on all mats. We have been able to get better results from packless mats, run through this machine, than we have processed previously.

It certainly makes the picture look brighter for packless mats.

Sincerely yours,

L. A. Alexander
Stereotype Superintendent



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BUILT TO LAST A LIFETIME — WITH A MINIMUM OF MAINTENANCE

- Sharpen router bits faster—easier than any other machine.
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- Bits stay sharper longer—and cut free.
- Eliminates burred plates.
- Sharpen two bits to the same length simultaneously for double routers.

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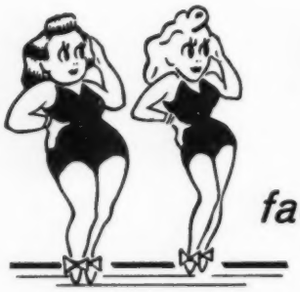
no changes in the clamp pressure are required. It is said that the No-Marx will permit cutting up to 1000 sheets of CB, Sub 15, per lift. Circle No. 265 on Reader Service Card.

DELKOTE REUSABLE PLASTIC MOUNTING HAS PRESS AND CAMERA APPLICATIONS

A reusable plastic mounting which adheres to various dry surfaces has been introduced by Delkote, Incorporated. Called Solid Tak, the substance reportedly sticks to paper, masonry, plaster, wood, metal and glass. According to the manufacturer, Solid Tak remains unaffected by water or temperature variations, and is easily and completely removable.

Among the recommended uses for Solid Tak are mounting large press sheets and cleaning lenses and negatives. Delkote states the material will not melt, freeze or harden from disuse. Circle No. 254 on Reader Service Card.



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STARNEWS in the 8 point size, is designed to give the same letter count on the popular narrower (11 picas) column width as you now get in the wider column. Its letter count will result in a saving of about 6% over many 8 point news faces without sacrificing readability.

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abcdefghijklmnopqrstuvwxyz 1234567890	**abcdefghijklmnopqrstuvwxyz 1234567890**
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HAND CLEANER REMOVES INK AND GLUE

A liquid hand cleaner which may be used with or without water has been announced by Schaffner Corporation. Known as Little Doc Disovit Hand Cleaner, the product reportedly removes stains such as those caused by printing ink and glue. The cleaner is packaged in a self-dispensing container which may be attached to a wall. Circle No. 250 on Reader Service Card.

EAR PLUGS FOR PRESSMEN

An ear plug, designed to fit all ear openings and recommended for pressmen, has been developed by Sigma Engineering Co. Named Com-Fit ear plugs, they are molded of silicone rubber and are said to be non-toxic, non-allergenic and resistant to ear wax and skin oils. The plugs may be boiled and sterilized. It is claimed that the noise attenuation of these ear plugs equals 36.3 decibels. Circle No. 251 on Reader Service Card.

ADDS TO HAND LETTERING TEMPLET LINE

Letterguide Company has increased its line of templets for hand lettering. The templets may be produced on offset plates, wax stencils, silk screen films, transparent overlays or smooth surface paper.

Smaller templet sizes have been added to the Fine Groove engraving style. The addition has made templets available in the 3/16 in., 4/16 in. and 6/16 in. sizes.

The range of letter sizes in 40 display and type styles has been expanded to include sizes to ¾ in. by addition of 92 templets. It is claimed that the use of the Letterguide Scriber permits production of lettering from ⅛ to 1 in. sizes in the 40 alphabets.

Among the variations possible are outline letters, solids, reverses and shadows. Circle No. 282 on Reader Service Card.

DEVELOPS DRIER FOR INK MAKING

A drier for manufacturers of printing inks for letterpress and offset lithography has been developed by Central Compounding Co. According to the sponsor, the drier is a combination of metallics, plastics, plasticizers, stabilizers and catalytic driers that complement each other. Use of Cobanol, as the drier is known, is said to assure a mar resistant finish and eliminate crystallization. Circle No. 281 on Reader Service Card.

ALTER DESIGN OF ROTOMATIC COLLATOR

It has been announced that alterations have been made in the design of the Rotomatic collator, manufactured by Thomas Collator Industries, Inc. According to a company official, the controls on the 50 station collator have been repositioned for easier operation. The guides have been simplified so that sheets are received earlier in the collating cycle.

Other features of the unit include: a push button programmer, a miss and double detector that locates the source of error, and a stitcher that staples each collated set. Reportedly, the Rotomatic collates, counts and staggers at rates from 14,000 to 25,000 sheets per hr. Circle No. 269 on Reader Service Card.

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WEB CONTROL

EQUIPMENT DESIGNED TO
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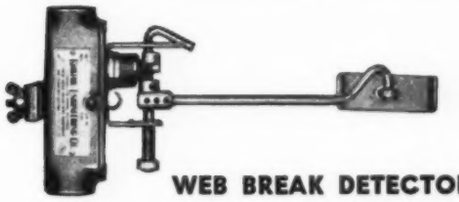
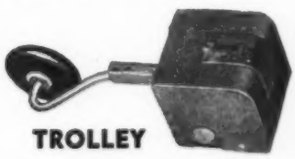
WHEN A WEB BREAKS . . .
INSTEAD OF MERELY STOPPING IT!



WEB BREAK DETECTOR

- Precise and quick acting to stop press instantly at the time of a web break.
- Has running position, threading position and two lock-out positions.
- Press cannot be operated at high speed unless shoes are in operating position.
- Can be mounted in any and all positions in press.
- Shoe pressure and range of operation can be easily adjusted for any web condition.



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- The most outstanding advancement made in web break detector systems in recent years. It prevents the web, after the impression, from lashing back and wrapping around the printing cylinders.
- The Cooksey System is the only system that provides this feature, therefore it is the only system that can actually prevent damaging wrap-ups due to web breaks.

WEB SEVERING DEVICE

- It is compact, and the action is positive and instantaneous.
- Cuts completely across the whole sheet.
- Clean cut web comes out of printing unit at time of a web break instead of ragged tails or loose pieces that may cause additional delay.

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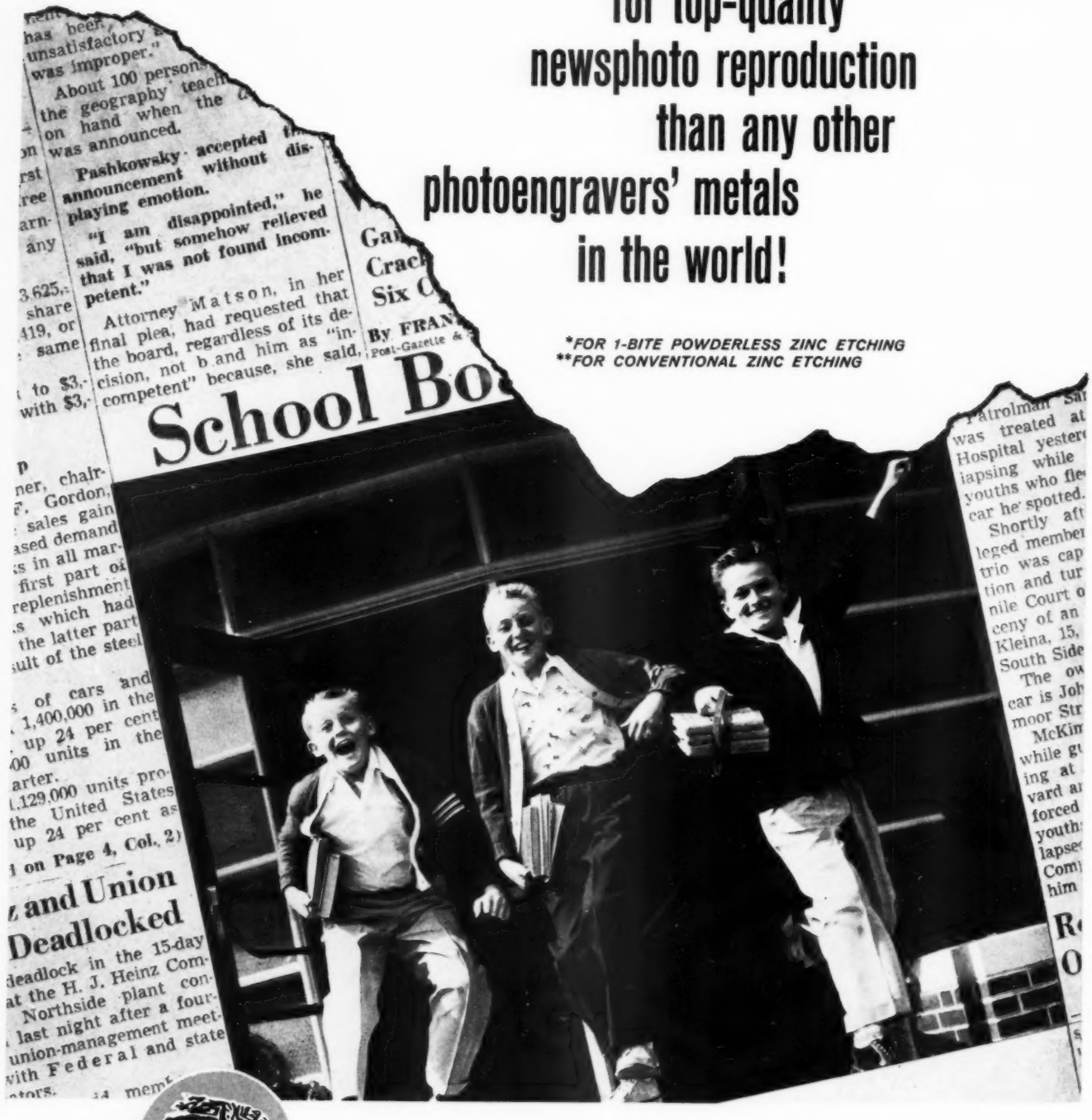

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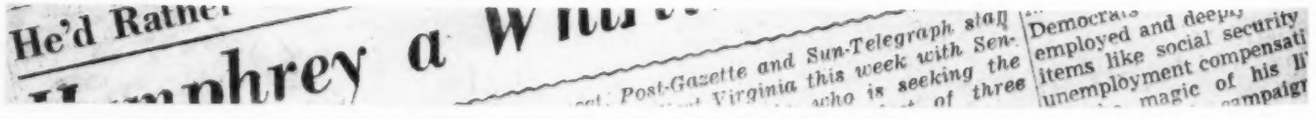

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PRINTING INDUSTRY PATENTS

Covering patents issued March 1, 8, 15, 22, and 29.

All new patents for the printing industry are reported exclusively for PRINTING PRODUCTION by Invention, Inc., an industrial patent research organization in Washington, D. C. Invention, Inc., presently has the only staff in the country that examines, in the U. S. Patent Office, the complete printed copy, drawing by drawing and page by page, every one of the several hundred new patents issued each week. PRINTING PRODUCTION is the only trade publication in its field offering a report based on this complete coverage. For copies of the patents listed here specify the patent numbers and send 25c for each separate patent, or 10c for each trade mark or design patent (stamps not accepted) to the Commissioner of Patents, Washington, D. C.

Composing Room:

SLUG CONTROL GUIDE FOR LINECASTING MACHINES

Improved guiding and controlling engagement with the upper ends of type slugs as they pass between a vise frame and a knife block has been attained by using an elastomeric material, such as Neoprene, in which to mount a thin metallic guide plate. The guide is of the type used in the travel from the mold wheel of the linecasting machine to the rotary saw of the Mohr slug sawing unit such as disclosed in Patents 1,264,541, 1,358,972 and 2,563,147. No. 2,929,492 by Harold O. Mohr, assignor to Mohr Lino-Saw Co.

PHOTOCOMPOSITION MACHINES

A plate may be placed in any one of nine positions. To accommodate a large font, the invention also provides for the addition of other groups of nine characters each to the plate with provision for projecting directly therefrom on to the film and a shifting lens system whereby the optical axis may be shifted slightly in the same manner as the character plate. Thus the lens itself may be shifted to any one of nine selected positions. No. 2,930,297 by Louis M. Moyroud, assignor to Graphic Arts Research Foundation, Inc.

Platemaking:

KEYLINE PRINT PREPARATION

The process is for use in preparing keyline prints for use in photomechanical processes such as photoengraving, photolithography, photogravure, silk screen, and flexographic applications. It provides for producing an accurate, clearcut reproduction in outline of a subject which is depicted by areas of two constrasting tones, the width of the outline being controllable. No. 2,927,020 by David A. Zilli.

PLATE SUPPORT AND CLAMP

For holding a stereotype printing plate on a saddle type plate finishing machine, this clamp is adapted for applying pressure at a steady and uniform rate by means of a curved resilient band so that the plate is not marred nor strained out of alignment. Fluid pressure is used for operating the clamp. No. 2,928,161 by Glenn N. Krueger, assignor to Miehle-Goss-Dexter, Inc.

PLATEMAKING COMPOUNDS

Patent claims a photopolymerizable element or sheet which can serve as plates for the preparation of stereotypes or electrotypes. The novel polymeric compounds are solid polyacetals of linear polymeric polyhydric alcohols having a large number of recurring intralinear—CH_2 CHOH —units, and also comprising a plurality of extralinear vinylidene $CH_2 = C <$ groups. No. 2,929,710 by Elmore Louis Martin, assignor to E. I. du Pont de Nemours and Co.

PLANOGRAPHIC PRINTING PLATE

Invention is based on the forming of an aqueous coating composition comprising a methylolated polyacrylamide together with a pigment. This aqueous coating is then applied in a conventional manner to the surface desired and heated in the

1st of 6

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presence of a catalyst to effect a cross-linking of the methylolated polyacrylamide to form an insoluble hydrophilic planographic surface. No. 2,930,317 by Glenn Harold Perkins, assignor to Oxford Paper Co.

PRINTING PLATE REGISTER GAUGE

For newspaper and other color work, this gauge is capable of being placed against the edge of a stereotype plate and setting to indicate distances of several points on the printing subject from the edge of the plate for use in checking the subject on matching color plates. The gauge is effective in spite of chipped, bevelled, or damaged plate edges. No. 2,929,149 by Denway H. Lawson.

PHOTOPOLYMERIZABLE COMPOSITIONS IN PHOTOMECHANICAL WORK

In a process of making a printing relief, a photopolymerizable element, is exposed to actinic light through a transparency, after which the unexposed portions of the layer are removed with an aqueous solution containing an alkaline material. No. 2,927,022 by Elmore Louis Martin and Arthur Livingston Barney, assignors to E. I. du Pont de Nemours and Co.

PHOTOPOLYMERIZABLE COMPOSITIONS IN PHOTOMECHANICAL WORK

A printing relief is prepared by exposing to actinic light selected areas of this photopolymerizable element until polymerization of the insoluble state takes place in the exposed areas without significant polymerization in the unexposed areas. The unexposed portions of the layer are then removed by means of a predominantly aqueous solution. No. 2,927,023 by Elmore Louis Martin, assignor to E. I. du Pont de Nemours and Co.

PATENT SEARCHES

For Patent Research in the U.S. Patent Office, or prompt estimate on any type of search, write

INVENTION, INC.
Munsey Bldg., Washington 4, D.C.

RELIEF IMAGE PRODUCING METHOD

Photoresists and lithographic plates may be produced by this method. A substrate, coated with a composition which includes a ferric compound, is converted to an active condition by exposure to ultraviolet light. After exposure an image on the substrate is developed by contact with a peroxide to obtain water insoluble and water soluble portions, and the desired resist or lithographic plate is obtained. No. 2,927,021 by Jack L. Sorkin, assignor to Horizons, Inc.

DEPRESSING SCREEN DOTS

In preparing printing cuts from photographic materials and to prevent the small screen points from becoming elevated out of proportion, this process provides for the disintegration of the unhardened expanded gelatine to such an extent that the small screen elements are slightly depressed. This is accomplished by treating the fixed photograph with aqueous solutions of organic or inorganic acids and/or salts in the presence of hydrogen peroxide and then drying same. No. 2,927,858 by Ludwig Mayr, assignor to Wolfgang Muth.

Printing Presses:

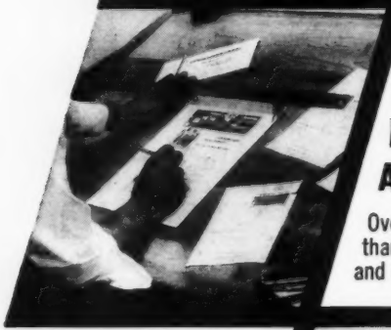
INKING MECHANISMS FOR ROTARY PRINTING PRESSES

An inking mechanism of the type covered by patent 2,672,812 includes a variable speed connection between a main drive shaft and an ink distribution cylinder shaft and a free-wheeling overrunning clutch between the distribution cylinder shaft and the drive for the ink pumping units. This provides for the proper range of relative speeds between the ink distribution and the ink pumping mechanism. No. 2,927,533 by Hans J. Luehrs, assignor to the Cottrell Company.

NON-STAINING COLOR BASE AND METHOD OF PRINTING

A composition claimed comprises a non-staining triarylmethane color base containing two dialkyamino-substituted aryl groups having as a substituent a nitro

SPEED-UP ASSEMBLY



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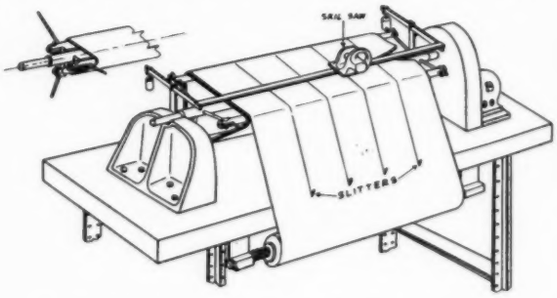

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group, the logarithmic dissociation constant of which is within the range of 2 to 5. Thus the nonstaining color base becomes chemically unreactive towards human skin, but reacts with strong acids to form an intensely colored salt. No. 2,927,040 by Chester Davis.

MAKING INK-CARRIER ROLLER

A lithographic roller, superior to those made of rubber as it needs no final truing by face grinding, is prepared by admixing a polyvinyl chloride resin with a low polymer liquid butadiene-acrylonitrile which is heated at 200 to 250 deg. F. and cast into a roller mold, where it is reheated at 250 to 400 deg. F. to a final set. No. 2,927,346 by Edward D. Hill.

SAFETY LOCK FOR INTERNAL LOCKUP PRINTING CYLINDERS

The lock is spring urged and adapted to automatically operate should an operator neglect to set it before starting the machine. It is easily moved manually to releasing position for adjustments and resettings. No. 2,928,342 by Harry W. Faeber, assignor to Time, Incorporated.

PRINTING PRESS

A multi-color rotogravure or intaglio press for printing on carton blank web stock uses gear drive connections from a common drive shaft to a series of press units which will insure that each gear drive connection is free of backlash. Horizontal alignment in a lengthwise direction is also assured. No. 2,929,317 by John R. Baumgartner and Peter Zernov, assignors to Mercury Engineering Corp.

Honolulu Plant Installs Two Heidelbergs—Two 21 in. by 28 in. Heidelberg cylinder presses have been installed at Star Bulletin Printing Co., Honolulu, Hawaii. Appearing, left to right, are: Russ Quaintance, Heidelberg dealer in Hawaii; Charles Hundley, production manager, Star Bulletin Printing Co., and R. L. Perry, Heidelberg Western Sales Co.

WEB PRINTING PRESS

In this press, the printing plates are mounted on a continuous chain carrier and are adapted to print in proper sequence on a web which is progressively cut into sheets which are piled in the sequence in which they come from the plates and collated in proper order. The press also slits the web longitudinally in a manner so that two copies of a book may be produced simultaneously. No. 2,930,318 by William F. Stroud, assignor

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of one-third to Edward A. Stroud, and one-third to Edith Bridgeman.

VIBRATING INKER ROLL

This vibrator roll has features which are improvements on the art of patent 2,745,343 and incorporates a reversing or switching thread follower having opposed faces which alternately engage with right and left hand threads of screw with which the follower cooperates. This provides a maximum amount of surface contact between the faces and the threads. No. 2,928,341 by Norman W. Taylor, assignor to Harris-Intertype Corp.

CARTON PRINTER

The printer is designed to mark one or both sides of a collapsed carton passing under revolving dies, which dies may be changed readily for printing cartons of different sizes and for different products. The device uses a quick drying ink and an applicator that wets the die only when it is about to transfer ink onto the subject. No. 2,929,318 by Ralph A. Pannier, assignor to The Pannier Corp.

INK FOUNTAIN ROLL

The roll is made of a relatively hard rubber-like material with softer rubber sealing disks mounted at each end. The construction more positively prevents ink leakage and provides greater leeway in manufacturing tolerances. No. 2,929,321 by Everett H. Newbegin, assignor to Whitin Machine Works.

INTAGLIO PRINTING CYLINDER

The cylinder can be increased in length without danger of sagging by the use of internal bearing disks. The disks may be spaced and used in sufficient number so that cylinders accommodating five and six page widths can be used. No. 2,929,322 by Jack Bryer, assignor to R. Hoe & Co., Inc.

LOCKUP DEVICE

By means of a cam plate slip fitted into a slotway and a retaining slide fitted strip and cooperating cams, this lockup will more positively grip and retain a web and may be more precisely adjusted to exert the proper degree of tension on the web and to more exactly position the web on a backup. No. 2,929,323 by William B. Burgard, assignor to J. W. Clement Co.

REGISTER OF PLATE CYLINDER

Mechanism is so associated with each plate cylinder of a multi-cylinder press that its angular position relative to its drive and to the other plate cylinders may be adjusted to secure proper registry of printed matter. This is accomplished by a common drive shaft for the plate cylinders and associated mechanism. No. 2,930,319 by John R. Baumgartner, assignor to Mercury Engineering Corp.

Feeding, Folding, Delivery:

APPARATUS FOR FOLDING AND HANDLING NEWSPAPERS

In preparing folded newspapers for mailing, this apparatus uses a hopper into which a stack of newspapers to be mailed is manually placed. Thereafter, the papers are automatically handled on a conveyor to fold the papers into smaller packs, apply a sealing wrapper and pass the papers to a delivery station. The application for this patent is a continuation of that originally filed on patent 2,759,727. No. 2,926,907 by Emil Bromberg.

SHEET TRANSFER MECHANISM

An improved stop gripper is provided for transferring sheets from a position at rest on a feed table to the grippers of a continuously rotating impression cylinder. Multiple external compression spring assemblies of former apparatus are eliminated and the force necessary to maintain the respective actuating members in contact with control cams is provided by a single, fully enclosed, resilient spring. No. 2,926,909 by Johannes K. Jantzen, assignor to Miehle-Goss-Dexter, Inc.

CONTINUOUS WEB STORAGE AND FEED MEANS

For use with a high speed machine, a web feed and storage apparatus maintains a

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Efficiency Expansion Chucks

In one operation, lever the cam and lock it. It won't slip —ever. Unwind, rewind, or brake easily. There are efficiency expansion chucks for either fibre or steel cores up to ten inches in diameter—for shafts of 1" to 3½" in diameter in graduations of 1/16".

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web under constant tension by minimization or avoidance of inertial effects which would disturb the desired constant web tension. The arrangement provides a low inertia means for applying a force to a web so that as it is withdrawn from a web supply an accumulation of the web is maintained under a uniform tension in advance of the use point. No. 2,927,789 by Francis W. Walsh and Henry A. Hendrich, assignors to International Business Machines Corp.

PRINTING PRESS GRIPPING DEVICE

A less expensive and more efficient sheet transfer device is attained by adjustably mounting a sheet gripper incorporating a spring on a rocking shaft. The pressure of the gripper finger is adjusted by means of a threaded bolt which is located in the gripper body. No. 2,928,344 by Paul Dietrich and Roland Gunther, assignors to Maschinenfabrik Augsburg-Nuremberg A. G.

PRINTING PRESS DELIVERY

For use in high speed magazine work, the device effects the folding and delivery of signatures and sheets from a web printed at high speed in a magazine press while operating the folding and delivery components at efficient lower speeds to attain great accuracy and to avoid smudging. The timing is variable depending on the size of the product being handled. No. 2,929,625 by Adolph M. Zuckerman, assignor to R. Hoe & Co., Inc.

Binding, Cutting, Perforating:

INTERMITTENT DRIVE DEVICE

The drive is designed for use with "trilateral" bookbinding machines. The drive is capable of replacing the operator for automatically carrying out the feed stage of the pile carrying carriage and the return travel of the carriage, taking into account the intervals of time needed to load the pile at one side, trim, and unload the finished pile at the other side. No. 2,928,284 by Frederick Alfred Walls, assignor to Pivana & C. Soc. per Az.

MANIFOLD BUSINESS FORMS

A feature of this invention is the novel application of adhesive to one edge of a group of forms. The adhesive is applied through punches adjacent one edge of the sheets so that it will seep outwardly from the punches between the sheets. To prevent the group units from adhering together, a coating which is repellent to the adhesive is applied adjacent the punched edge. No. 2,930,632 by William D. Winders, Sr. and William D. Winders, Jr.

COLLATING MACHINE

A rotary collating machine, mounted on casters for easy mobility and of the type covered by patent 2,799,496, is adapted for collecting the pages and signatures of catalogs, advertising pamphlets, and the like. The speed of the machine can be easily adjusted to conform with the agility of the operators and can be stopped at any time by any operator by means of a foot pedal. No. 2,928,671 by Ralph Allenbaugh, assignor to The Cadm Corp.

COLLATING MACHINE CONVEYOR

In a conveyor of the type disclosed by patents 2,739,809 and 2,684,848, for inserting envelopes between separated pages of a folded greeting card, a novel impeller mechanism embodying plates moving forward at the same speed as the conveyor is used. The pressure on the packs of folded sheets and envelopes is maintained at a constant pressure so that collation of the two is facilitated. No. 2,930,611 by Lewis C. Pearce, assignor to American Greetings Corp.

Miscellaneous:

FASTER READING BOOKS

The design of the book aims to make reading faster and less fatiguing. The color of the leaves of the book are tinted to produce reflection to a maximum of 80% and to a minimum of 70% of incident light. The leaves are printed with a colored ink which reflects a minimum of 8% and a maximum of 12% of the incident light and comprises the same hue as the coloring matter used for tinting the paper. No. 2,916,304 by Errington A. Whiteford and Faber Birren, assignors to Whiteford Paper Co., Inc.

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AT A LOW, LOW PRICE*
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Uniform coverage—steady burns (color and intensity)—economical operation—low initial cost . . . what more could you ask for in an arc lamp?
Hi-Lite Arc Lamps are economical to operate. For example, a pair of H-66 lamps produce 75 amps at the carbons but draw only 15 amps per pair from the power line. Patented mechanism causes carbon arc to re-strike automatically at timed intervals—eliminates bouncing or sputtering.
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Electronic Scanner Speeds Processing of Color Photo

A color photo taken as Princess Margaret and her bridegroom left Westminster Abbey was processed in 48 hrs. for a press run by the Toronto (Can.) *Star Weekly*. The use of a Crosfield Scanatron made the rapid processing possible, according to a report.

The Scanatron is an electronic color scanner which reportedly produces fully corrected separation positives from a set of separation negatives. It is stated that the machine produces positives at the rate of one every 15 min. Correction is accomplished by scanning all three separation negatives. From the density values of the negatives, a correction exposure on a cathode ray tube is produced. The correction exposure is simultaneously imaged through one of the separation negatives to produce the corrected positives.

Handling of the photo at the Toronto *Star* began when the corrected positives, which were made on the Scanatron in London, arrived at 9 p.m., Saturday. The color cylinders were prepared by 7:30 a.m. Sunday and were chromed and on the press by 11:50 a.m. Retouching and corrections took 4¾ hrs.

Contest Will Look for Unusual Uses of Printing

The National Paper Trade Assn., Inc. has launched an "imagineering" contest in an effort to stimulate uses of paper and printing. The Association hopes to uncover many unusual and obscure uses of printing which can be promoted nationally. Three cash prizes and 10 trophies will be awarded to winners of the contest which closes July 31, 1960.

The contest is open to all personnel of NPTA member firms. A selection of best entries will be displayed at the 1960 NPTA convention. For further information write: National Paper Trade Assn., Inc., 220 E. 42nd St., New York 17.

135 Plants in New York City alone find Matrix Contrast Service is indispensable!

THE MATRIX CONTRAST SERVICE, with its black and white and color-coded matrix feature, is in use in every English-speaking newspaper, (15), and 120 other plants consisting of foreign language newspapers, trade typographers and commercial printers *in New York City alone.*

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MATRIX CONTRAST SERVICE

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Controlling Production

(Continued from Page 67)

termined from study of the priority list and copy records of the individual publication.

Should the composing room superintendent see a bottleneck approaching with a closing makeup date shortly, he will assign a code letter to copy in order to speed it through composition. In addition, he alerts the production operator to contact the customer in an effort to accelerate the balance of the copy.

The code letter indicates whether the copy is to be set within four, six, eight or 10 shifts. If a tight spot had developed it will be rushed through on a four shift schedule. Since the plant operates three shifts daily, five days a week, the galleys will be sent to the customer approximately 24 hr. after receipt.

Most publication plants have trouble with reprints of ads and text, and the occasional commercial job. If not carefully scheduled, interruptions such as these can break up magazine production. Hildreth makes an effort to devote equal care to scheduling both reprints and commercial jobs so forms will not be held up due to a missing page.

Heart of Control System

Heart of the Hildreth production system is a loose leaf binder containing master control sheets for each publication. (See form No. 3 in accompanying illustration.) This

is kept up to date daily, so that the status of each job in terms of pages of copy, ads, makeup, lockup, press or bindery location can be immediately determined.

Pressroom conditions are recorded on a large sheet on which all 40 presses are listed. (See form No. 1 in accompanying illustration.) The title of the publication, folios, and the counter readings at noon, 4 p.m., 8 p.m., midnight and 8 a.m. can be listed. There is room for an explanation of any difficulties and a column for run total as compared to sheet production. Delays are carefully analyzed for causes that might become chronic and production standards are evaluated in the light of new information.

Attached to the production office wall is a ruled blackboard on which are tabulated the results of all controls. These are entered in terms of total daily production hours gained or lost on each press and bindery machine in the plant. For example, the target for May was 500 hours gained which was reflected in adjusted production standards. These are predicated on applied PAR ratings following the PIA system. The board also contains press manning data which is duplicated on a control board in the pressroom and bindery.

Switching of Press Crews

On hooks opposite each production unit are hung tags for each member of the crew. There are large tags for the operator and small ones for assistants. These are posted before each shift in order for press crews to determine to what unit they have been assigned. Within range of their training, men are shifted when necessary. This might be necessary in order to speed a job through, to make up lost hours due to missing copy, plates, defects in paper, plates, ink, or to other causes. The production department will generally make up lost time by adding overtime, using a lunch hour period, etc., to prevent an overload from developing in the bindery.

Tebbetts finds that by scheduling the workload continuously in advance, he is able to spot overloading before individual departments begin to feel it. He then shifts work in order to relieve the pressure.

The Hildreth building was built during the war and features a completely open floor area, extremely high ceilings and excellent lighting. This enabled the Hughes Corporation to lay out the plant for straight-line production flow. The plant occupies 4½ A. of a 26 A. plot. A second floor in the front section accommodates the overflow of office personnel.

In addition to Tebbetts, plant management personnel consists of: John Mitchell, president and general manager; R. C. Hughes, Jr., plant manager; Charles Whitney, plant superintendent; Morris Lane, composing room superintendent; Stanley Carney, pressroom superintendent; Jack Holt, bindery superintendent, and Kenneth Hayward, foundry manager.

President of the Hughes Corporation is Russell C. Hughes. William L. Liggett is vice president in charge of plant operations for the Hughes organization.

NEXT MONTH: *Descriptions of makes and models of control devices available on the market for scheduling production in printing plants.*

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Combination Model AWR

Model ABWR with Hinged Gate

Wiretyer's Automatic Bottom Wrapper-Feeder wraps and feeds bundles as fast as any machine can tie them...makes possible a fully mechanized mailroom that matches the production of today's high-speed presses and provides more efficient operation at lower cost.

A MODEL FOR EVERY APPLICATION

Automatic equipment is available to fill specific requirements: as an underwrapper alone (recommended where an automatic stacker is used), as an inline feeder alone to fully mechanize the semi-automatic Parker-Signode and Gerrard Model 1200 tying machines, and as a combination underwrapper-feeder with these units and the fully automatic Wiretyer single or double tie machines. More than 50 units are now in use throughout the United States and Canada.

Wiretyer engineers have solved material handling problems for newspapers throughout the world. For a single piece of equipment or a complete system engineered to your particular application, call Wiretyer today.

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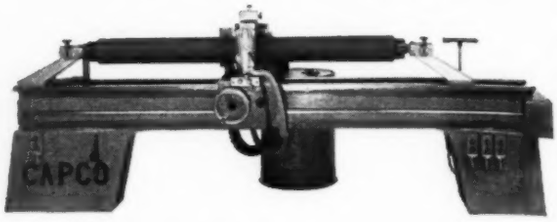

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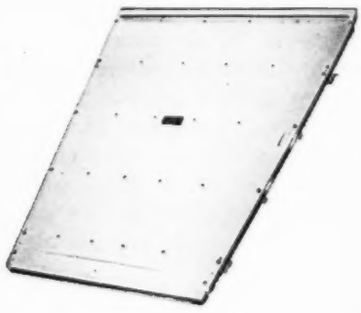

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Full Length **$165.00**

Lower Split **$150.00**

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Solving Newspaper Problems

(Continued from Page 57)

may be tried. Should the problem involve the use of testing equipment, it is forwarded to the Easton laboratory division.

In addition to trouble-shooting, the Division staff writes, edits and distributes all Institute publications. Among these are the *Mechanical Bulletin* and the *Research Bulletin*. The former keeps members informed on new equipment, processes and gadgets; the latter reports the accomplishments of the laboratory and other divisions.

Planning for the annual Mechanical Conference of the ANPA is also the responsibility of this division. A new and broadened format has been adopted for the 1960 conference, June 20-22, Americana Hotel, Miami Beach, Fla. Under the new program, sessions of interest to personnel and management men have been included as well as the traditional sessions for men concerned with production.

Personnel problems are studied by the Training Division. The task of this division is twofold: To assist in on-the-job training of production employees and to explain production operations to management and supervisory personnel. The latter includes editorial and advertising people who have had no actual experience in the trade but whose jobs are affected by production schedules, cost problems, quality and newspaper planning.

Aim To Reduce Costs

Helping newspapers reduce costs by improving their systems is the objective of the Production Engineering Division. Headed by Robert B. Wentworth, mechanical engineer from the University of Illinois, this division assists management in making the most effective use of buildings, equipment, materials and people in the organization.

The staff of this division has been working closely with Johns Hopkins University in developing the Ad Measure system, a management tool for estimating hot metal composition costs of display advertising.

Also, in cooperation with Johns Hopkins, the division is studying costs of conventional Fairchild Teletypesetter operations as compared with costs of the new Photon Cleantape system. Results have been published of previous division studies of three newspaper hot metal and photocomposition operations. Various engraving machines have been surveyed by the division staff as to their cost per square inch of engravings.

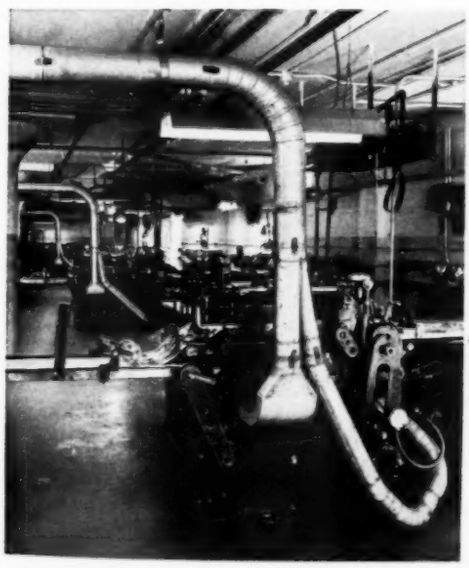
If there is to be a solution of the problems confronting the newspaper industry, it must come from the joint efforts of all who have the problems. The reorganized ANPI-RI, an association of newspapers for newspapers, is now in a position to effectively play its part in furthering modern day newspaper printing.

Use Address Change Card

Please take a look at your address on the wrapper in which PRINTING PRODUCTION is sent to you at your place of employment. If it isn't correct, please tell us about it on the special postcard found in this issue.

REDUCE PRODUCTION COSTS

with Automatic, Continuous Trim Removal . . .



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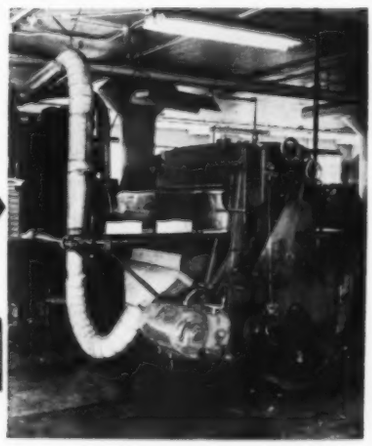
Trim is removed from trimmer continuously and automatically.



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Statistical Quality Control

(Continued from Page 85)

you cannot inspect quality into it."

Otto C. Stoessel, Jr., of the Aeronautical Chart Information Center presented a talk on a complicated and involved subject. His organization produces world wide charts by offset lithography in eight different plants, including his own. When sections of the charts become obsolete it is necessary to bring them up to date. The problem lies in duplicating the correction work exactly in each plant.

The quality control department in each plant reports and is responsible to the quality control man at the head plant. Management in each plant is not held responsible for quality control.

One of Stoessel's objectives out of a number of others is that his department hopes to specify tack in ink so the ink can be used directly from the can. This will make it unnecessary for the pressman to doctor the ink itself in production.

In this type of map work, as high as 15 colors are used. A chart of each map is made up by the quality control center for use in the pressroom.

Composite sheets made up for management are used in preparing material for employee training. Essential specification information can be obtained from the sheets to pass along to the pressmen, the contractor and supplier.

Stoessel related that without scientific quality control 66% of the product was acceptable. With proper control, the product is 85% acceptable. As the result of establishment of statistical quality control, which has been in operation approximately a year, specifications for materials can be changed to insure better consistency. His organization will be able to determine the yearly requirements closely.

Control of Color in Printing

Through the use of color charts, Frank Preucil of Lithographic Technical Foundation spoke on *Measuring Quality and Tones of Color.* Preucil's discussion was well presented. The Foundation feels it has made a worthwhile contribution for determining tone of color. He explained uses of the recording densitometer, scanning densitometer and recording spectrophotometer in color platemaking and presswork.

He said more should be done than just to measure solids to assure quality control in tints. Most of the work the eye sees is in tints.

Preucil said that in color reproduction you must start by measuring overprints for quality. Trapping is important in color reproduction and should be better understood. Inks should be made so the pressman won't need to change them. All plants should know about the trapping value of process inks. One of the most important factors in color reproduction is in the use of the gray scale. He advised getting at least one halftone area next to a solid area.

The entire second day of the R&E Council conference was devoted to presentations by makers and principal distributors of the primary materials furnished the printing industry.

Five categories were covered: Photosensitive materials, metals, pa-

Get more mileage, better reproduction, with your choice of VULCAN PRESS BLANKETS...the only complete line of impression cylinder packings...more than 20 combinations of type and gauge...made by the one blanket manufacturer who produces every item in the line.

STYLE	THICKNESS							
	.025"-.027"	.030"-.032"	.055"-.057"	.060"-.062"	.070"-.072"	.076"-.078"	.080"-.082"	.090"-.092"
#67 Non Felt (Top)				X			X	X
#79 E.D. (Drawsheet)		X						
#77 Draw Sheet	X	X						
#76 Cork (Unders)			X	X	X	X	X	X
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per, ink and adhesives. After 17 speakers from a number of companies had finished their presentations by movies, slides and oral comment, it was clearly evident that all supplies manufacturers work hard at quality control to assure that their products will reach the consumer in normally useful condition.

In some instances, the speakers stated that in attempting to eliminate or minimize an objectionable quality in a product, it could be done only at the sacrifice of a desirable property. This is the case particularly with the paper and the inkmaker. To illustrate, P. T. Dickie, of Crown Zellerbach Corp. said: "Papermaking is a series of compromises with irreconcilable elements." Harvey Sweetland of St. Regis Paper Co. said: "If the printability of paper is to be increased you give up strength. You cure one problem but create another."

Albert R. Materazzi, Litho Chemical & Supply Co., spoke on *Quality Control as Applied to Litho Platemaking*. He said that all materials in the final analysis are derived from nature and are therefore subject to the foibles and caprices of nature. They differ greatly as to composition and physical characteristics. In connection with men, machines and manufacturing conditions, it is necessary to use quality control methods in preparing materials and supplies for industry.

Orlando Newspaper Completes Three Years of Expansion—The recent completion of this two-story, ultra modern office building culminated a three year, $4½ million expansion program of the Orlando (Fla.) *Sentinel-Star*. The building occupies 48,000 sq. ft. and will house the advertising and editorial offices of the newspaper and provides room for 100% expansion of the composing room.

Quality control, however, should not be considered absolute. The word *quality* has no meaning unless the end use of the product is specified.

To indicate variability in materials and processes, Materazzi pointed out that the Lithographic Technical Foundation estimates there are some

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AND 100 MORE CAN BE MADE WITH A
ROLL-A-FACE
ELROD ATTACHMENT
AND A FEW OF YOUR ELROD BORDER MOLDS

• Eliminates most all border block and slide recasting • Obtain full length borders and rules • Eliminates ribs, short piecing and border breaks • Easily attached, no holes to drill or tap • Anyone can use efficiently • If you have an Elrod, you need a Roll-a-Face.

Ask about Speedangle Printers Angle Gauge too. Makes angled composition ordinary composition.

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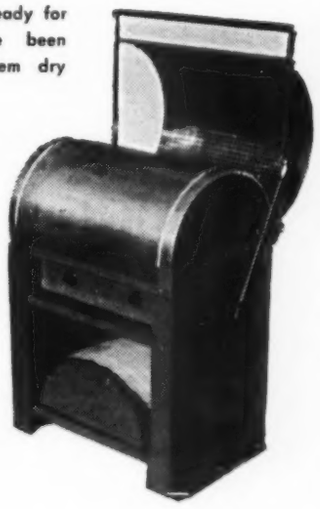
STEREOTYPERS
MODEL PD WARMING MACHINE

Used to keep your mats ready for casting after they have been scorched. Also keeps them dry for recasting.

Perforated metal cover allows for storage of several mats at once.

Lower heated turtle may be enclosed or open. Closed in, it serves as an oven to store several mats.

PRICE $281.75 with lower turtle open (as shown). Add $43.00 extra for enclosing lower turtle.



APS INC.
American Publishers Supply, Inc.
50 Salem Street
Lynnfield, Mass.

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43 variables in surface platemaking alone which affect in some degree the excellence of the plate.

George H. Eddleman, Imperial Type Metal Co., spoke on the quality control system used in making type metals and photoengraving zinc alloys. He invited companies in the Council to avail themselves of Imperial's laboratory facilities without incurring obligation when troubled with type metal or engraving metal problems.

Dr. J. P. Sermattei of E. I. du Pont de Nemours & Co., related that while he was in England a new technique for binding the English edition of *Readers' Digest* had been developed in the plant of Hazel, Watson & Viney Ltd. Ordinarily in this country, the *Digest* had been printed on uncoated papers and then bound with hot melt. In England the *Digest* is printed on uncoated and coated papers. The problem of permanently binding the books was overcome by applying a primer to the binding edges of the signatures after which the hot melt adhesive is applied in the regular way without sacrifice of production speed.

Paul Koller of Minnesota Mining & Mfg. Co. presented the initial showing of a new sound color movie about the making of 3M pressure sensitive tapes. In conclusion, Koller said that statistical quality control principally is used to insure uniform quality in the tapes at all times. Meetings attended by quality control and production people are held regularly, since cooperation and education are prime requisites in the making of this type of tape of which there are many kinds.

In the adhesive section presentation, statistical quality control was also explained by all five panel members. An interesting bit of information was passed along by Walter Alexander, Jr., American Adhesive Mfg. Co., when he said: "Animal glues are derived from bones and hides—not horns and hoofs."

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B & P Precision Magplate can be curved to any diameter through an exclusive curving process. Pre-curved Magplate saves many hours of make-ready time by eliminating inaccuracy in plate thickness and curvature. There are no stretch factor problems with B&P pre-curved Magplate because the etching is done on pre-curved metal. Register is absolute —if your negatives are in register your plates must be in register. B&P Magplates can be chrome plated to last through millions of impressions.

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European G. A. Machinery

(Continued from Page 61)

not seen or heard of in the United States. Virtually all were modified versions of presses already familiar to American printers.

French Show New Press

One new French machine, however, deserves a bit more attention. The Elby, made by Edouard Lambert in 25 in. by 35 in. and 34 in. by 49 in. sheet sizes, is a letterpress machine designed for using rubber or thin gauge plastic plates. These plates are attached to a metallic sheet (saddle) which is then clamped over the cylinder. The presses operate at speeds of 7000 i.p.h. and 6500 i.p.h., respectively, according to the manufacturer.

Both Elby machines are sheetfed rotary perfectors, with an over-all appearance very much like that of offset presses. The plate cylinders are equipped with clamping mechanisms, again resembling those on offset presses, to hold the thin plates on the saddles. The mounting of the plate on the saddle is done outside the press so that makeready time is reduced.

The HTB stream feeder is continuous with swing grippers feeding the sheet to the grippers on the first

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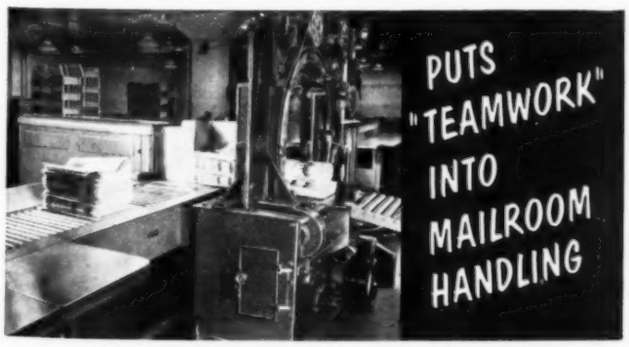

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- **Mechanically screens the face of type-high slugs, border and hand type cast in stereotype metal.**
- **Manually operated, precision built and easy maintenance.**
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impression cylinder. Brushes are used to smooth the sheet against the impression cylinder. Where there is danger of smudging the first impression on the second printing cylinder, a separate paraffin applicator unit is supplied. The inking system is equipped with 13 rollers, three of these being plate rollers.

Timsons Ltd., a British company, introduced the Pliaplate, a new sheetfed rotary designed specifically for two color work using flexible plates of various kinds and thicknesses. At the Exposition the machine was demonstrated running a two-color job on a 17 in. by 23 in. sheet. A thin metal wrap-around plate was used on one cylinder for the black text and halftone, and a rubber plate printed some display heads and artwork in green ink as the second color. Included with the press is a jig for pre-registering wrap-around metal plates and the tympans used for regular rubber and plastic plates.

The Pliaplate press has been tested on zinc, magnesium, copper and steel plates, with etched depths from 0.015 in. to 0.005 in. Speeds up to 10,000 sheets per hour are claimed. In the words of the manufacturer, "It is suitable for rubber, plastic, or metal plates—the plates now available and also for the shallow-etch plates of the future." The sheet size range is from a minimum of 10 in. by 15½ in. to 18 in. by 24 in.

Offset Printing Presses

In the offset field Marinoni was impressive with its blanket-to-blanket web offset press designed to print four colors each side. This was but half of a machine destined for the French plant of l'Imprimerie Nationale to produce telephone directories at 20,000 cyl. r.p.h.

The Marinoni 53 in. by 76 in. four color sheetfed offset press is claimed to be the largest of its type made in Europe. Nebiola showed its four color 44½ in. by 51 in. press which is said to operate at 6500 i.p.h. Numerous French, Italian, German and some English offset presses were also shown, but with no special features not already known or reported in this country.

A. B. Printing Co. of Sweden introduced a completely new Chief 224. This is a two color offset press which consists of two standard Chief 24s joined together. The sheet is carried from one unit to the next by means of two drums and a transfer cylinder, with no changes in construction.

Either unit can be operated separately as a single color press. Head-to-tail register is maintained by customary correction of the plate position on the cylinder. Side register on the second unit, however, is obtained by a micrometer wheel which can move the entire second press in either direction ±1/32 in.

Skid Lifts are Popular

Far more attention seems to have been paid to bindery machines this year than ever before. Mueller showed an extensive variety of gang stitchers, feeders, trimmers and coverers. Biel displayed completely integrated systems for the mass production of memo and school composition books and similar products. Also represented were Dexter, Christensen, Camco, Ehlermann,

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Crawley, Polar, Krause-Wohlenberg, Sheridan, Baum, Will, Wolk, Thouvenin, and other manufacturers in the bindery field.

The most interesting new developments seemed to be in cutters with several manufacturers offering novel ideas for materials handling. Skid lifting devices varying in mechanical operation were fairly common among the exhibits at the Paris show.

There were three general categories: Automatic lifts powered by the hydraulic system used to operate the clamp, and automatic lifts powered by the cutter's motor, both systems being an integrated part of the cutter. A third group would be the motor operated skid lifts which are rolled into position as needed, being completely apart from the cutter.

Tape Operated Cutters

Devices for automatic control of the spacing of cutting sequences by means of magnetic tape dominated the paper cutter field. Several manufacturers have introduced variations, some using a tape on a fully enclosed spindle operated by the back gauge. Others use a stationary tape which stretches over the bed of the cutter.

The most interesting—if for no other reason than the unusual number of jobs which can be recorded on a single tape (actually 24)—would be the new machines introduced by Krause Wohlenberg and Schneider Senator. On the K-W unit, the tape is stretched out flat within a glass covered case on the top frame of the machine, with the limit switches immediately above it. On the Senator, the tape is concealed below the front table on a rotary drum.

The exposition as a whole was primarily for the French printer, with few exhibitors (apart from the Americans and the English) able or willing to speak English with visiting foreigners. Since the exhibitors were predominantly French distributors rather than the original equipment manufacturers, the American visitor was constantly faced with the feeling that he was not a prospective purchaser and was somewhat in the way. Most, however, were extremely kind and courteous, though language barriers were a problem.

ROP Color in Germany

(Continued from Page 65)

not possible to use the thin rotary inks on proof presses. The change to concentrated inks for process printing meant the solution of this difficult problem. Proofing is now done with the same concentrated cool scale inks to meet special requirements in the advertising field.

Proofing should be governed by the possibilities of process production printing and not vice versa. On sheets of newsprint stock used in actual printing, a four-to-five-step scale was pre-printed in five bars, side by side, on the press. This scale showed the primary as well as the secondary colors, and the print-on-print of all three colors for the depth, using normal inking. Proofing was done on the newsprint.

When proofs of color plates are made on these sheets separate bars for each color are printed simultaneously in full tone and 50% tone. In this way the proof press

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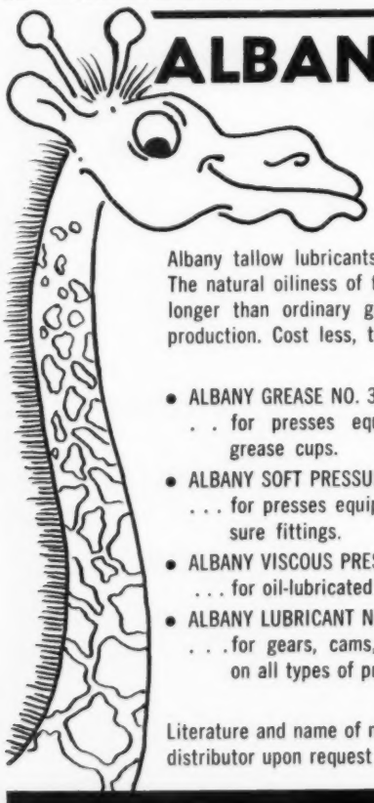

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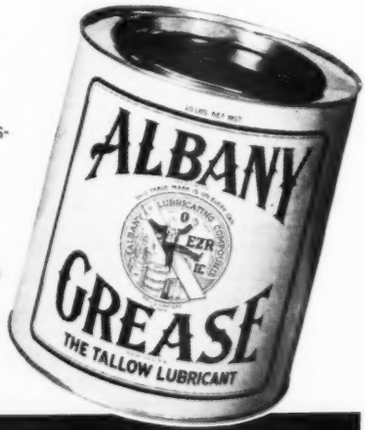

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operator is always able to check whether the strength of his inking corresponds to the pre-printed scale and thus to press conditions.

Control of Stereo Variables

The stereotype department is as much as ever a matter of special concern. As long as the Graphic Arts industry continues to use the customary mats with cellulose content for production of rotary plates one has to put up with the difficulties involved. A material which is subject to temperature and humidity variations and thus susceptible to reaction is, of course, not ideal. The latest mats provided in Germany for color printing are not so sensitive. It is still necessary, however, to use mats of the same moisture content for each plate.

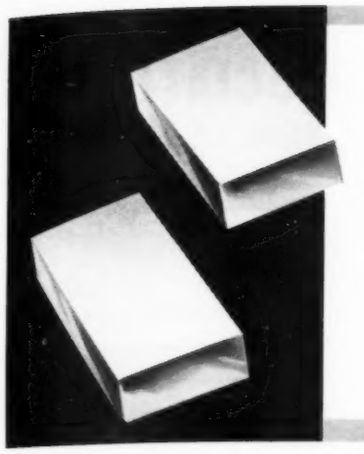
The method of drying is of considerable importance in obtaining the best possible uniform shrinkage. One should neither lose control of the drying nor of the whole operation. Vacuum driers with exact time and temperature controls are indispensable.

Registering mats and plates is another difficulty. Register marks alone are not sufficient since the plates in the press can be shifted only to a limited extent. It is important that the mats be cut accurately, the angles true and that they lie immovable in the plate casting box. To assist in obtaining register a slotted hole may be punched near the upper edge of the mat. A corresponding pin is inserted in the casting box over which the hole in the mat is placed. In this way the mat is prevented from shifting sidewise.

In order to check the set of plates for register after casting it is advisable to build a simple device with a clear acetate sheet which is laid over the curved plate. A proof is taken on the acetate sheet with the inked first plate. The register control of the other color plates in the set is determined by this proof.

For long production runs, color plates should be nickel-plated to eliminate additional registering operations in the press.

German newspaper presses are not quite suited for true three or four color printing. The web must run through two printing units, thus considerably increasing register difficulties between the individual



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colors due to the long distance between the units.

The press vibrator inking units used up to now are not suited for high speed presses if uniform inking is required. It has been only possible to obtain a continuous ink film without a vibrator system. Although our press equipment does not have these facilities some very gratifying results are achieved in spite of these difficulties.

Speed is of no importance in process printing. The press runs with an average of approximately 16,000 cyl. r.p.h. when printing ROP color.

Special attention should be paid to constant speed of the presses with vibrator inking units. Decreasing or increasing the speed always results in inking irregularity.

Color is Economic Problem

The printing of ROP color in a single press run or in a pre-printed section is an economic problem. A specially printed color pre-date will raise production and inserting costs considerably. Therefore, production generally calls for a single press run including the color pages. If it is impossible, for example, to print a paper with more than 32 pages in a single press run, the color pages will go into the pre-printed section. The reason is that production will be easier with one web than with two or three webs.

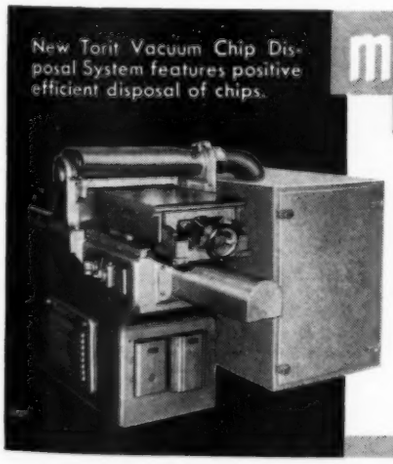
For the Saturday edition in this German plant it is still necessary to run a pre-printed section containing the color pages. More recently color pages were also printed in the normal run of weekday editions. Production management should take into consideration the usual number of pages and the press capacity available when deciding whether to do the work by pre-printed section or single press run.

On press makeready for a three or four color printing and for four color pages we estimate approximately 3 to 4 hrs. This is dependent on whether only one or more of these four color pages require a genuine three or four color printing.

It is obvious that the proof including the photoengraving scale should be available for the makeready and the process printing as well. Since the possibilities for corrections at the press are meager and no makeready can be done on the back of the plates, the proof should be the actual basis for the printing. It is useless to try to match the printing to the transparency. This matching should be taken into account before proofing in the photoengraving department.

It has not yet been possible to quickly complete work on color photographs because the development of color films, production of color separations, as well as etching, proofing, etc., still take up a lot of time. We allow three or four days at least for completing the color set. In addition, about one day is needed for molding, plate casting and nickel plating.

We now feel, after having carried out thorough tests plus the experience gained, that the so-called cool color scale (true cyan and magenta), highly concentrated inks, and the color sequence of blue, red and yellow, form the basis for uniformly good color reproduction. Without uniformity in the ink field there can be no uniform production.



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Measuring Fair Day's Work

(Continued from Page 73)

times two when the load is heavy) runs a carefully designed, compact bank area. Coupled with careful load planning, this collation system has enabled the plant to complete pages in an even flow according to a regular production timetable. First trials of the system indicate that substantial savings should result once the system settles down.

Savings were made on classified by sorting copy into classifications and alphabetically before typesetting instead of afterward. Copy is now deliberately held in the dispatch department and sorted there. At the final deadline, copy is run out in order in long takes to cut down the time operators are away from their machines. Savings on long takes and easily handled copy enable them to complete typesetting by the same time as always in spite of starting later.

Eliminates Some Handling of Type

Additional savings were made at makeup because type is now collated only once—into the carryover type. Eventually, this collation will be done directly in the page forms and pages justified on the spot, saving costly stringing up of type on banks and then rehandling it into pages.

Another newspaper has used work measurement to move into photocomposition on a planned, non-experimental basis once it was proven that this was the best process for them.

This plant recently completed training and is now rapidly building up the operation to full strength. They report that to date the project has worked out very close to original predictions.

TRAINING—The second basic use of work measurement is training men in new processes or in better methods in your present process.

Earlier articles showed how specific motion patterns had to be laid out to get standard times for doing a given job. The best method, of course, is the motion pattern that takes the least time. So in selecting the best methods through work measurement, a precise description of the methods is created that can be used in teaching them to your men. The standard time for the job serves as a goal so you can tell when they reach competency.

The newspaper that moved into photocomposition through work measurement used their standards extensively for training. Many of their men reached close to 100% productivity in as little as six to eight weeks. They had definite methods descriptions to guide them, and they checked their progress against the established standards.

CHECKING PERFORMANCE—Once an operation is established, it always tends to backslide a bit. This is natural as original enthusiasm gives way to dullness of repetition. An alarm indicator is needed to tell your supervisors when to call for more effort.

Standard time formulas are excellent devices for monitoring the performance of an operation. The Percent of Standard figure provides a quickly read indicator. A figure

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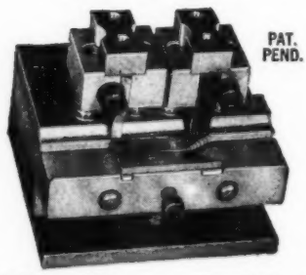

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less than 100% would show that performance was below standard, while a figure above 100% would indicate that extra effort had been extended. Daily performance percentages can be posted to a master chart to show trends.

Actually, performance ratings can be prepared for any part of the operation over any chosen time period—for individuals, each shift, or the operation as a whole.

Alerts Production Management

The Percent of Standard figure has proved to be very sensitive to changes in productivity. If used intelligently, it can alert you to a number of production problems as they arise.

For example, large ups and downs in the ratings from day to day, or between shifts, could mean improper scheduling of men to handle the load, thus creating areas of dead time.

High ratings during periods of heavy overtime would indicate a need for more equipment or men. Low ratings at this time, however, would indicate either a need for closer supervision, or a need to adjust the workflow to make better use of the men's time.

And, of course, individual performance can be evaluated. (One plant was startled to find that its best men were producing three and a half times as much as the poorest man.)

Use of standard time formulas also protects you against creeping changes in the work load. If, for instance, the proportion of difficult time consuming work should increase and the easier work decrease without changing the number of pieces or jobs, more work elements would still be counted and entered on the formula sheet. The formula is tied directly to the work content —not to agate lines of space or dollar volume of business.

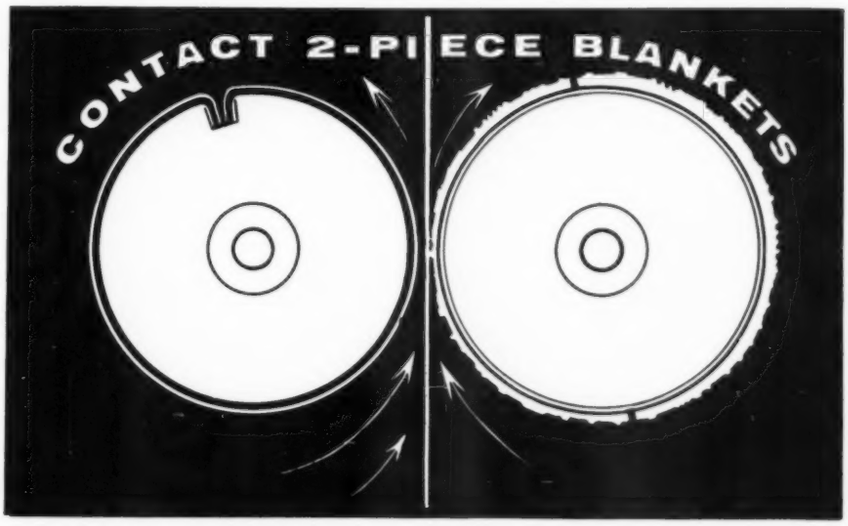
LOAD SCHEDULING AND MANAGEMENT — An accurate measurement of the time a work load will take to produce, of course, is invaluable to anyone who has to schedule this work for production. With standard time formulas it is possible to calculate accurately the production times on jobs before they ever get into the plant. Barring unusual delays, such as major equipment breakdown, these times are very reliable for scheduling and assigning delivery dates.

Once the work is in the plant, your foreman can use this information, too. Production times can be written directly on the job tickets or control slips. The foreman can maintain running totals of time values for various work centers which will tell him at a glance exactly what their conditions are.

Or, if you know in advance you're going to get a big volume of work, you can plan for it in advance. One newspaper foreman uses a simple bit of arithmetic, based on a standard time formula, to precisely schedule classified production before the daily run.

The classified department provides him with a total of the classified linage taken in. Then he makes a few calculations (it takes less than a minute) which translate this into the number of operators he needs to finish typesetting by the deadline. In his calculations, he can adjust for changes in productivity from day to day so that he will always be accurate.

ESTIMATING—If being able to



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predict production time accurately is valuable in production management, it is just as valuable in estimating jobs. Printing estimators are resourceful men who have learned to perform miracles with what is really very little information. Yet every one of them knows it is easy to miss an estimate.

Standard time formulas can provide invaluable help, especially on tough estimates for which the estimator has no precedent. If you are extending your sales effort into new fields, your estimator can go quietly crazy trying to produce estimates that are little more than guesswork. Time formulas will enable him to translate any piece of work into reliable, accurate time figures regardless of his familiarity with the work or its complexity.

Work measurement and standards are used extensively for estimating in other industries that produce custom-built products—metal fabricating, electronics, the garment industry, and many others where manual assembly work is common.

A number of printing plants have applied standards to their bindery operations, one of the biggest hand operations in printing despite all the machinery used. We have also heard that a couple of plants use standards in the pressroom. Undoubtedly, these standards are of great assistance to the estimators.

Each of these five basic uses for work measurement has many ramifications. The intent, of course, was to provide some idea of the basic nature of work measurement and how it can be used productively.

Proper Use of Work Standards

Now something should be said about the unproductive use of work measurement.

Work measurement is much like a doctor's scalpel. The scalpel has great value when used by a skilled surgeon, but becomes a dangerous weapon when wielded by an incompetent.

Work measurement, too, must be used with responsibility for the people involved. In the early days, unscrupulous managers and "efficiency experts" set back many years the proper use of work measurement by badly misusing these techniques. Many people, both managers and workers, have suffered from these misuses.

Carefully and properly used, work measurement can contribute to better human relations in your plant. A good set of standards is a fair, accurate, impartial measure of "a fair day's work." The modern pre-determined time value systems of work measurement available today enable everybody concerned to pinpoint problems and come to specific decisions on an objective basis.

Where possible in this series, we have tried to show how work measurement should fit into your operations, not override them; how everyone concerned can benefit.

Work measurement, then, is a basic tool. It is the measuring stick needed to get a firm grip on the industry's operational problems. It is one of the most powerful tools available for helping you improve your operations and your management of them. Used properly, it will enable you to "manage from knowledge," while those who ignore it can only manage from hunches and hindsight.

(Concluded)

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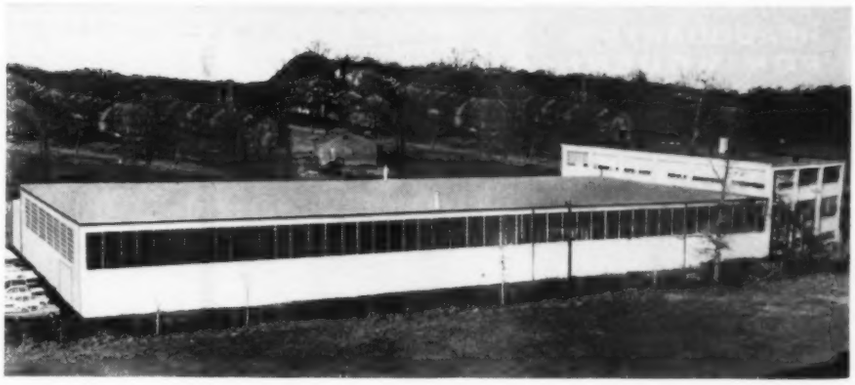
To Discuss New Trends in Graphic Arts Education

New trends in Graphic Arts education in secondary schools and colleges is the theme of the annual conference of the International Graphic Arts Education Assn. to be held at the University of Houston, Houston, Aug. 14-19.

Among the activities planned is a series of workshops on Graphic Arts education in the following areas: Industrial arts training on the secondary level and for teachers; vocational schools; two years technical institutes, and four year colleges.



Hantscho Expands Press Manufacturing Plant—George Hantscho Co., Inc., has announced plans for an addition to its press manufacturing plant at Mount Vernon, N. Y. Scheduled for occupancy by midsummer 1960, the addition (pictured) will measure 15,000 sq. ft. and will be constructed of concrete, steel and glass.

Miami Herald Building

(Continued from page 74)

also be isolated against flooding should a hurricane strike and send waves crashing across the highly reinforced seawall.

While the *Herald*'s current press capacity can hit a peak of about 450,000 papers daily—not including an auxiliary plant used largely for insert and special runs—the new press capacity is geared for 1,000,000 papers daily—and there will be room to add another 70 press units.

First three floors of the south building will house *Herald* offices, the fourth will be available for rental. A landscaped parking lot west of the building will have capacity for 650 cars.

Until construction started, the 10 A. tract was a rundown area of aging apartment houses and deserted nightclubs from Florida's boomtime era.

To cope with the uncertainties of tidal effects on the seawall, engineers have designed an ingenious second underground wall 40 ft. inshore, anchored to the seawall by 2 in. cables at 9 ft. intervals.

Naess and Murphy, of Chicago, assigned to design the building, have incorporated the glamour of Florida architecture to make the structure a feature of the Miami skyline.

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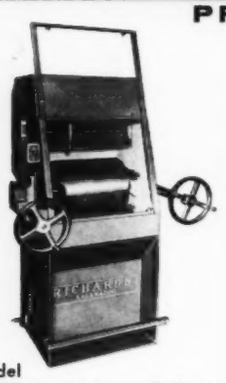

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Helpful Literature

(Continued from Page 52)

SCOTT PRESSES AND FOLDERS

Scott press units and folders for newspapers are described in literature issued by Walter Scott & Co., Div. of Wood Newspaper Machinery Corp. Circle No. 339 on Reader Service Card.

HANTSCHO WEBFED OFFSET PRESSES

George Hantscho Co., Inc., has issued literature on its webfed offset presses. The lithographic presses are available in any number of units which may be arranged to print from one to six colors. Circle No. 316 on Reader Service Card.

ATF BUSINESS FORMS PRESS

Information on a new variable size business forms press has been published in booklet form by American Type Founders Co., Inc. The press is available with cylinder sizes from 14 in. to 26 in. diam. and with a maximum web width of 26½ in. Circle No. 327 on Reader Service Card.

UNIT TYPE NEWSPAPER PRESS DRIVE

Cutler-Hammer, Inc., has prepared a pamphlet on its d.c. Webmaster unit type newspaper press drive. Among the features of the drive unit are: Static power conversion, dynamic braking and a trip locater system. Circle No. 329 on Reader Service Card.

OFFSET BLANKET SELECTOR GUIDE

Guide sheets for selection of offset blankets are available from Vulcan Rubber Products Div., Reeves Brothers, Inc. Listed in the guide are eight applications for the selection of a suitable grade from four Durofyne offset blankets. Applications include regular lithographic uses as well as metal decorating, cardboard printing and rotary webfed printing. Circle No. 331 on Reader Service Card.

FOUNTAIN DIVIDERS AND SEPARATORS

Informative literature on Dayco color separators and fountain dividers has been published by Dayco Department, Dayton Industrial Products Co., Div. of Dayco Corporation. The units are adjustable and are said to fit any standard press or fountain. Circle No. 338 on Reader Service Card.

Bindery-Mailroom

CHALLENGE POWER PAPER CUTTER

Power paper cutters in sizes 19⅜ in. through 30½ in. are featured in a booklet compiled by Challenge Machinery Co. The cutters are recommended for small shops and for use as auxiliary cutters in larger operations. Circle No. 325 on Reader Service Card.

SHERIDAN BINDER AND GATHERER

T. W. & C. B. Sheridan Co. has prepared literature describing the Accu-Speed gatherer and the Martini binder. Built in four pocket sections, the gatherer may be disengaged to idle any four box section. The Martini adhesive binder is designed for medium runs Circle No. 336 on Reader Service Card.

CUTTING UNIT FOR NCR PAPER

The No-Marx cutting unit, Model 58-220, is described by information sheets prepared by Index Manufacturers. The device reportedly allows the cutting of No-Carbon-Required paper without leaving clamp marks, smudge or haze. The unit may be attached to any cutter. Circle No. 328 on Reader Service Card.

ATF HEAVY DUTY SENATOR CUTTER

Specifications of the new 61 in. Senator cutter appear in a bulletin issued by American Type Founders Co., Inc. Features of the machine include hydraulic clamping and electronic spacing in which it is said 16 jobs can be recorded and repeated quickly. Circle No. 309 on Reader Service Card.

Miscellaneous

WAUSAU TEXT PRINTING PAPERS

A specimen folder of Wausau text printing paper has been compiled by Wausau Paper Mills Co. Included in the folder

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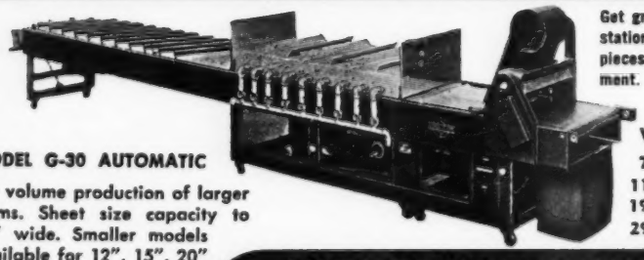

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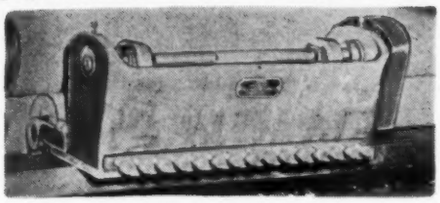

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New York and Penn says: "Pressman with moisture indicator checks relative humidity 'built-in' to New York and Penn offset paper to eliminate the 'hanging' of sheets before they are run."

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For More Information Circle 27 on Reader Service Card

are samples of text paper printed by various processes and swatches of Wausau stock. Circle No. 335 on Reader Service Card.

MEASURES COLOR OF INK, PAPER

A spectrophotometer for measuring the color of inks and papers is described in literature issued by General Electric Co. According to the sponsor, the machine may be used for duplicating colors and for determining errors in formulation. Circle No. 333 on Reader Service Card.

IMPERIAL TYPE METAL

Details on Imperial type metal and the company's service plans are included in literature compiled by Imperial Type Metal Co. Circle No. 341 on Reader Service Card.

CURTIS PAPER SAMPLE

A sample book containing a complete range of Curtis papers and colors has been prepared by Curtis Paper Co. Samples of process color, black halftone, black halftone overprinted on a screen tint and line reproduction as they appear on Curtis stock are included. Another feature of the publication is an index of benday tints from 10% to 100%. Circle No. 308 on Reader Service Card.

BATTERY POWERED FORK TRUCK

A six page folder describing the specifications and advantages of the battery powered fork truck has been prepared by Industrial Truck Div., Clark Equipment Co. The truck features self-adjusting brakes and a dual field drive motor. It is available in fork heights to 130 in. Circle No. 323 on Reader Service Card

PAPER HANDLING CASE HISTORIES

Seven case history bulletins describing techniques for materials handling equipment are available from Lewis-Shepard Products, Inc. The case histories were prepared from operations at major printing plants or paper warehouses. Circle No. 326 on Reader Service Card.

ELWELL-PARKER INDUSTRIAL TRUCK

Illustrated literature on the Model F-50T7 industrial truck has been published by Elwell-Parker Electric Co. The truck has a capacity of 7000 lbs. Circle No. 324 on Reader Service Card.

MASKING AND REPRO-PROOFING PAPER

A sample kit of masking and repro proofing paper has been prepared by Appleton Coated Paper Co. Circle No. 321 on Reader Service Card.

BUYING GUIDE FOR G-E MOTORS

A selection, application and buying guide for G-E Tri Clad '55 motors has been prepared by General Electric Co. The motors are available in single or three phase models and features from ¾ to 150 h.p. Circle No. 310 on Reader Service Card.

Dirats Opens New Plant—Pictured is the showroom of the new plant of Dirats Photo-Plate Co., Westfield, Mass. The latest equipment for manufacturing Dirats presensitized plates for photoengraving will be displayed there by trained personnel.

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JUNE 1960

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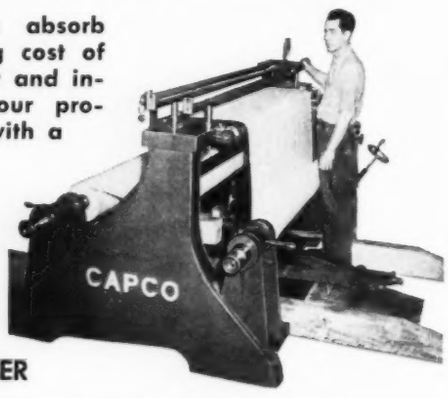

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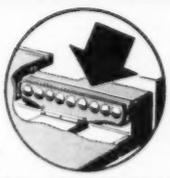

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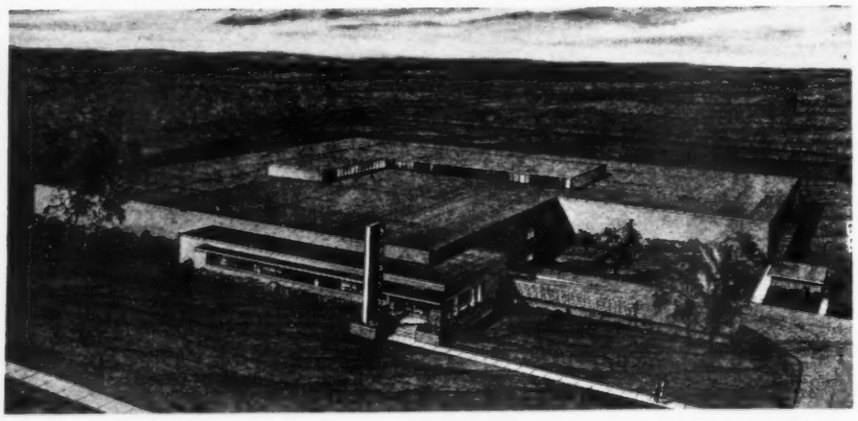
PIA Section Elects Officers—Carroll C. Barfield (left), president, Harry Barfield Co., Atlanta, has been re-elected president of Rotary Business Forms Section of Printing Industry of America. Others re-elected were, left to right: Arnold Greenfield, Alfred Allen Watts Co., Inc., Clifton, N. J., vice president; Harold L. Holden, Holden Business Forms Co., Minneapolis, secretary; William R. Brown, Chas. E. Brown Printing Co., Kansas City, Mo., treasurer.

GRAPHIC VIEWS

of the Printing Industry



New Di-Noc Plant To Specialize in Graphic Arts Films—A new plant which will house the manufacturing and sales offices for its Photographic Division is being constructed by Di-Noc Chemical Arts, Inc. The plant, shown in an artist's rendering, will be located in Honeoye, N. Y., and will specialize in the production of Graphic Arts films.

Truckload of Kluge Presses for Philadelphia Plants—Seven Kluge presses and feeders have been prepared for shipment to four Philadelphia firms by Brandtjen & Kluge, Inc. The shipment includes four 12 in. by 18 in. die cutters for Rose Company; One 10 in. by 15 in., six roller press for Rising Press; one 12 in. by 18 in. six roller press for Maco Box Co., and an A-K continuous business forms press for Universal Press, Inc.

Swayze Interviews Sun Chemical Official—John S. Thome (right), vice president, Sun Chemical Corp., predicts the use of more color advertising during an ABC radio network interview conducted by John Cameron Swayze (left), nationally known news commentator.

Heads Graphic Arts Arbitration Board—A. F. Oakes (left), Charles Francis Press, Inc., New York, is presented a gavel following his election as chairman of the Board of Commercial Arbitration, Federation of Graphic Arts of New York. Presenting the gavel is F. A. Young, Mail & Express Printing Co., Inc., New York, former chairman. The Board has been active in settling printing industry disputes for 48 years.

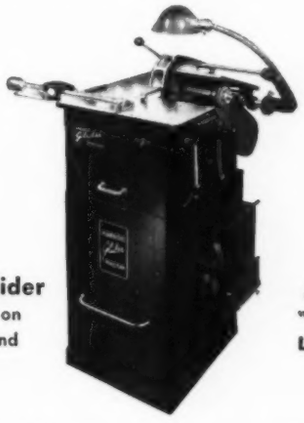
New York Mechanical Conference Officers—Pictured are officers of the New York State Capital District Mechanical Conference who directed last month's annual meeting in Albany, N. Y. Left to right are: Floyd Laurenty, production manager and Conference director, and L. O. Harrell, pressroom foreman and Conference president—both of the Albany *Times-Union*, and Walter Lewis, Conference secretary-treasurer.

Hammond OF KALAMAZOO

TRIMOSAWS and STEREO EQUIPMENT

TRIMOSAWS

G-100 *Glider*
"The Saw with the Ball Bearing Table"



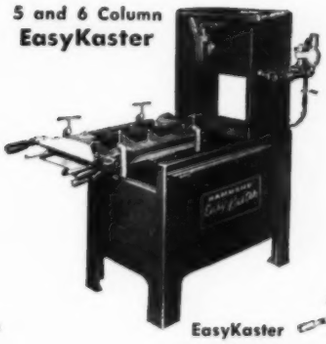
Bench Glider
Mounted on Floor Stand

Ben Franklin
"Finest Saw in the Low Price Field"

EasyKasters

Full Page **EasyKaster**

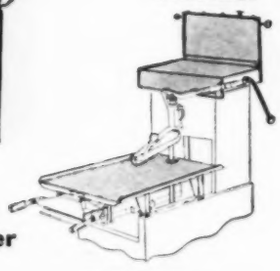
5 and 6 Column **EasyKaster**



EasyKaster **Pig Molder**

Scorchers

EasyKaster **Scorcher**



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Routers

Radial Router

Router Planer

PlateShaver

Full Page **PlateShaver**

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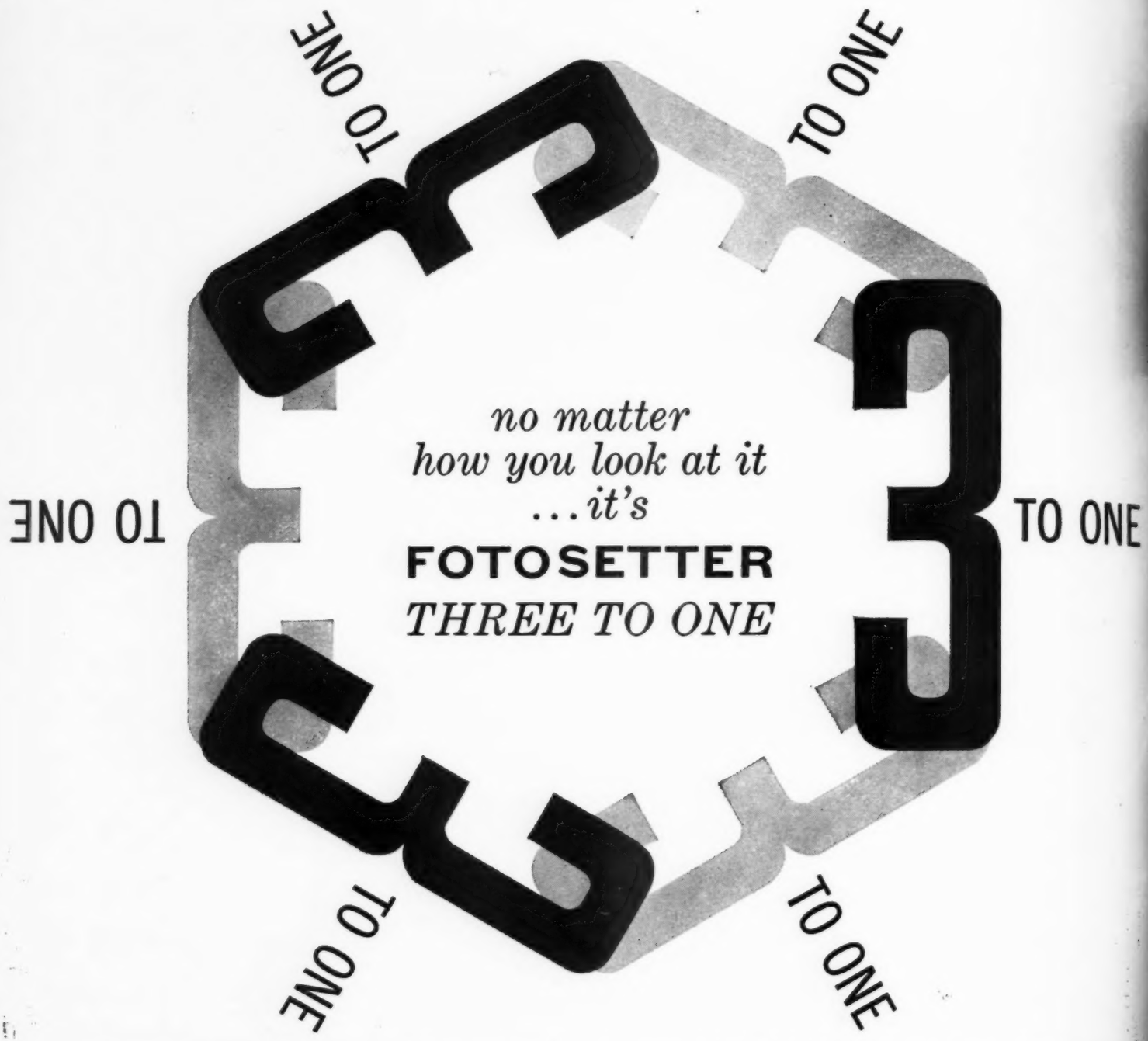

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